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NEWS 3	OCT 07 EPFULL enhanced with full implementation of EPC2000
NEWS 4	OCT 07 Multiple databases enhanced for more flexible patent number searching
NEWS 5	OCT 22 Current-awareness alert (SDI) setup and editing enhanced
NEWS 6	OCT 22 WPIDS, WPINDEX, and WPIX enhanced with Canadian PCT Applications
NEWS 7	OCT 24 CHEMLIST enhanced with intermediate list of pre-registered REACH substances
NEWS 8	NOV 21 CAS patent coverage to include exemplified prophetic substances identified in English-, French-, German-, and Japanese-language basic patents from 2004-present
NEWS 9	NOV 26 MARPAT enhanced with FSORT command
NEWS 10	NOV 26 MEDLINE year-end processing temporarily halts availability of new fully-indexed citations
NEWS 11	NOV 26 CHEMSAFE now available on STN Easy
NEWS 12	NOV 26 Two new SET commands increase convenience of STN searching
NEWS 13	DEC 01 ChemPort single article sales feature unavailable
NEWS 14	DEC 12 GBFULL now offers single source for full-text coverage of complete UK patent families
NEWS 15	DEC 17 Fifty-one pharmaceutical ingredients added to PS

NEWS EXPRESS JUNE 27 08 CURRENT WINDOWS VERSION IS V8.3,
AND CURRENT DISCOVER FILE IS DATED 23 JUNE 2008

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COST IN U.S. DOLLARS
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STRUCTURE FILE UPDATES: 26 DEC 2008 HIGHEST RN 1090514-45-6
DICTIONARY FILE UPDATES: 26 DEC 2008 HIGHEST RN 1090514-45-6

New CAS Information Use Policies, enter HELP USAGETERMS for details.

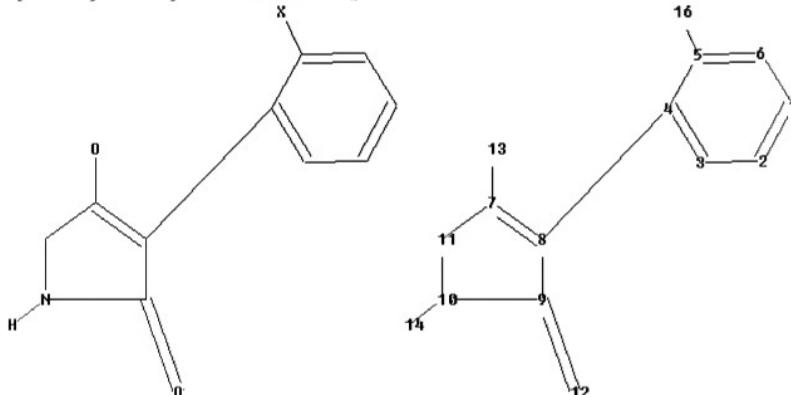
TSCA INFORMATION NOW CURRENT THROUGH July 5, 2008.

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=>
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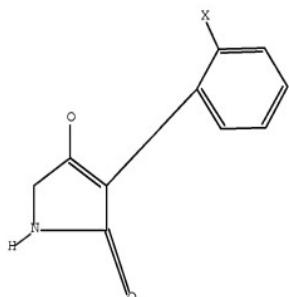
chain nodes :
12 13 14 16
ring nodes :

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chain bonds :
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ring bonds :
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exact/norm bonds :
7-8 7-11 7-13 8-9 9-10 9-12 10-11
exact bonds :
4-8 5-16 10-14
normalized bonds :
1-2 1-6 2-3 3-4 4-5 5-6
isolated ring systems :
containing 1 :

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom
11:Atom 12:CLASS 13:CLASS 14:CLASS 16:CLASS

L1 STRUCTURE UPLOADED

=> d L1
L1 HAS NO ANSWERS
L1 STR



Structure attributes must be viewed using STN Express query preparation.

=> file caplus	SINCE FILE	TOTAL
COST IN U.S. DOLLARS	ENTRY	SESSION
FULL ESTIMATED COST	0.46	0.67

FILE 'CAPLUS' ENTERED AT 09:56:14 ON 29 DEC 2008
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FILE COVERS 1907 - 29 Dec 2008 VOL 150 ISS 1
FILE LAST UPDATED: 28 Dec 2008 (20081228/ED)

Caplus now includes complete International Patent Classification (IPC) reclassification data for the third quarter of 2008.

Effective October 17, 2005, revised CAS Information Use Policies apply. They are available for your review at:

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=> s L1 SSS full
REGISTRY INITIATED
Substance data SEARCH and crossover from CAS REGISTRY in progress...
Use DISPLAY HITSTR (or FHITSTR) to directly view retrieved structures.

FULL SEARCH INITIATED 09:56:19 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 4962 TO ITERATE

100.0% PROCESSED 4962 ITERATIONS 755 ANSWERS
SEARCH TIME: 00.00.01

L2 755 SEA SSS FUL L1

L3 53 L2

=> d ibib abs hitstr 1-
YOU HAVE REQUESTED DATA FROM 53 ANSWERS - CONTINUE? Y/(N):y

L3 ANSWER 1 OF 53 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 2008:801291 CAPLUS Full-text
DOCUMENT NUMBER: 149:97676
TITLE: Improved use of the production potential of transgenic
plants by treatment with arylpyrrolidinediones
INVENTOR(S): Andersch, Wolfram; Fischer, Reiner; Kraus, Anton;
Hungenberg, Heike
PATENT ASSIGNEE(S): Bayer Cropscience A.-G., Germany
SOURCE: Ger. Offen., 111pp.
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 102007009957	A1	20080703	DE 2007-102007009957	20070301
WO 2008080545	A1	20080710	WO 2007-EP11037	20071215
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PRIORITY APPLN. INFO.:

DE 2006-102006061621IA 20061227

DE 2007-102007009957A 20070301

OTHER SOURCE(S):

MARPAT 149:97676

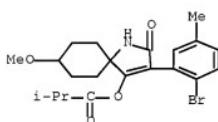
AB A procedure for improvement of the use of the production potential of a transgenic plant involving treating the plant with an effective amount (most preferably 50-60 g/ha) of ≥ 1 3-arylpyrrolidine-2,4-dione derivative to control pests such as leaf lice (*Aphidinae*).

IT 382608-07-3 382608-08-4 382608-13-1

RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)
(treatment of transgenic plants with arylpyrrolidinediones for controlling pests)

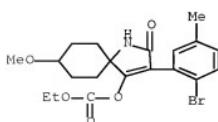
RN 382608-07-3 CAPLUS

CN Propanoic acid, 2-methyl-, 3-(2-bromo-5-methylphenyl)-8-methoxy-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ester (CA INDEX NAME)

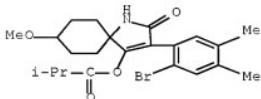


RN 382608-08-4 CAPLUS

CN Carbonic acid, 3-(2-bromo-5-methylphenyl)-8-methoxy-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ethyl ester (CA INDEX NAME)



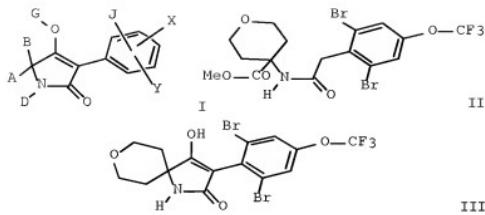
RN 382608-13-1 CAPLUS
CN Propanoic acid, 2-methyl-, 3-(2-bromo-4,5-dimethylphenyl)-8-methoxy-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ester (CA INDEX NAME)



L3 ANSWER 2 OF 53 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 2008:523967 CAPLUS Full-text
DOCUMENT NUMBER: 148:517533
TITLE: Preparation of trifluoromethoxyphenyl tetrameric acids as agrochemical insecticides
INVENTOR(S): Fischer, Reiner; Lehr, Stefan; Feucht, Dieter;
Franken, Eva-Maria; Loesel, Peter; Malsam, Olga;
Antons, Stefan; Ebenbeck, Wolfgang; Fleschke, Axel;
Schneider, Marielouise; Wischnat, Ralf; Arnold,
Christian; Auler, Thomas; Dittgen, Jan; Hempel,
Waltraud; Hills, Martin Jeffrey; Kehne, Heinz;
Rosinger, Christopher Hugh; Sanwald, Erich
PATENT ASSIGNEE(S): Bayer Cropscience AG, Germany
SOURCE: Ger. Offen., 94pp.
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 102006050148	A1	20080430	DE 2006-102006050148	20061025
WO 2008067873	A1	20080612	WO 2007-EP8908	20071013
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RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				

PRIORITY APPLN. INFO.: DE 2006-102006050148A 20061025
OTHER SOURCE(S): MARPAT 148:517533
GI



AB Title compds. I [J = OCF₃; X = H, alkyl, halo, etc.; Y = H, alkyl, halo; A = H, alkyl, alkenyl, etc.; B = H, alkoxyalkyl; D = H, alkyl, alkenyl, etc.; G = H, COR₁, SO₂R₃, etc.; R₁ = alkyl, alkenyl, alkoxyalkyl, etc.; R₃ = alkyl, alkoxy, alkylamino, etc.] were prepared. For example, t-BuOK mediated cyclization of keto-ester II afforded tetramic acid III in 51% yield. In *myzus persicae* chinese cabbage assays, 24-examples of compds. I exhibited > 80% protection after 5-days.

IT

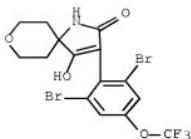
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 1021855-99-1P 1021856-03-0P 1021856-05-2P

RL: AGR (Agricultural use); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of trifluoromethoxyphenyl tetramic acids as agrochem.
insecticides)

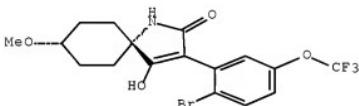
RN 1021854-58-9 CAPLUS

CN 8-Oxa-1-azaspiro[4.5]dec-3-en-2-one,
3-[2,6-dibromo-4-(trifluoromethoxy)phenyl]-4-hydroxy- (CA INDEX NAME)

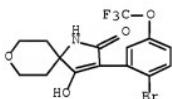


RN 1021854-62-5 CAPLUS
 CN 1-Azaspiro[4.5]dec-3-en-2-one, 3-[2-bromo-5-(trifluoromethoxy)phenyl]-4-hydroxy-8-methoxy-, (5a,8a)- (CA INDEX NAME)

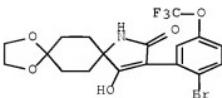
Relative stereochemistry.



RN 1021854-63-6 CAPLUS
 CN 8-Oxa-1-azaspiro[4.5]dec-3-en-2-one,
 3-[2-bromo-5-(trifluoromethoxy)phenyl]-4-hydroxy- (CA INDEX NAME)



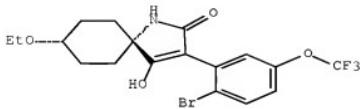
RN 1021854-65-8 CAPLUS
 CN 1,4-Dioxa-9-azadispiro[4.2.4.2]tetradec-11-en-10-one,
 11-[2-bromo-5-(trifluoromethoxy)phenyl]-12-hydroxy- (CA INDEX NAME)



RN 1021854-67-0 CAPLUS
 CN 1-Azaspiro[4.5]dec-3-en-2-one, 3-[2-bromo-5-(trifluoromethoxy)phenyl]-8-

ethoxy-4-hydroxy-, (5 α ,8 α)- (CA INDEX NAME)

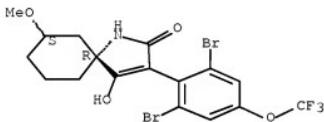
Relative stereochemistry.



RN 1021854-69-2 CAPLUS

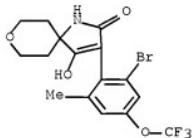
CN 1-Azaspiro[4.5]dec-3-en-2-one, 3-[2,6-dibromo-4-(trifluoromethoxy)phenyl]-4-hydroxy-7-methoxy-, (5R,7S)-rel- (CA INDEX NAME)

Relative stereochemistry.



RN 1021854-71-6 CAPLUS

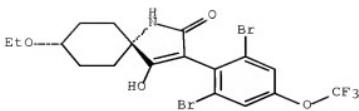
CN 8-Oxa-1-azaspiro[4.5]dec-3-en-2-one,
3-[2-bromo-6-methyl-4-(trifluoromethoxy)phenyl]-4-hydroxy- (CA INDEX
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RN 1021854-73-8 CAPLUS

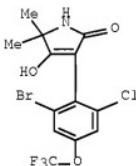
CN 1-Azaspiro[4.5]dec-3-en-2-one, 3-[2,6-dibromo-4-(trifluoromethoxy)phenyl]-8-ethoxy-4-hydroxy-, (5 α ,8 α)- (CA INDEX NAME)

Relative stereochemistry.



RN 1021854-75-0 CAPLUS

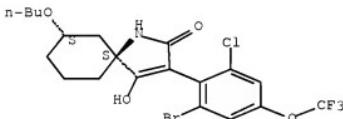
CN 2H-Pyrrol-2-one, 3-[2-bromo-6-chloro-4-(trifluoromethoxy)phenyl]-1,5-dihydro-4-hydroxy-5,5-dimethyl- (CA INDEX NAME)



RN 1021854-76-1 CAPLUS

CN 1-Azaspiro[4.5]dec-3-en-2-one, 3-[2-bromo-6-chloro-4-(trifluoromethoxy)phenyl]-7-butoxy-4-hydroxy-, (5R,7R)-rel- (CA INDEX NAME)

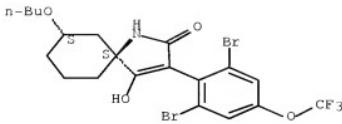
Relative stereochemistry.



RN 1021854-82-9 CAPLUS

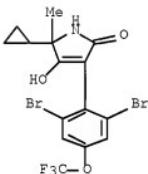
CN 1-Azaspiro[4.5]dec-3-en-2-one, 7-butoxy-3-[2,6-dibromo-4-(trifluoromethoxy)phenyl]-4-hydroxy-, (5R,7R)-rel- (CA INDEX NAME)

Relative stereochemistry.



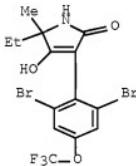
RN 1021854-88-5 CAPLUS

CN 2H-Pyrrol-2-one, 5-cyclopropyl-3-[2,6-dibromo-4-(trifluoromethoxy)phenyl]-1,5-dihydro-4-hydroxy-5-methyl- (CA INDEX NAME)



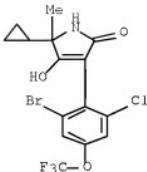
RN 1021854-90-9 CAPLUS

CN 2H-Pyrrol-2-one, 3-[2,6-dibromo-4-(trifluoromethoxy)phenyl]-5-ethyl-1,5-dihydro-4-hydroxy-5-methyl- (CA INDEX NAME)



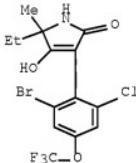
RN 1021854-92-1 CAPLUS

CN 2H-Pyrrol-2-one, 3-[2-bromo-6-chloro-4-(trifluoromethoxy)phenyl]-5-cyclopropyl-1,5-dihydro-4-hydroxy-5-methyl- (CA INDEX NAME)



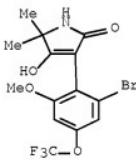
RN 1021854-93-2 CAPLUS

CN 2H-Pyrrol-2-one, 3-[2-bromo-6-chloro-4-(trifluoromethoxy)phenyl]-5-ethyl-1,5-dihydro-4-hydroxy-5-methyl- (CA INDEX NAME)



RN 1021854-95-4 CAPLUS

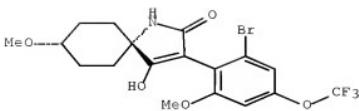
CN 2H-Pyrrol-2-one, 3-[2-bromo-6-methoxy-4-(trifluoromethoxy)phenyl]-1,5-dihydro-4-hydroxy-5,5-dimethyl- (CA INDEX NAME)



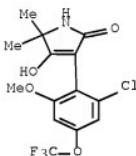
RN 1021854-97-6 CAPLUS

CN 1-Azaspiro[4.5]dec-3-en-2-one, 3-[2-bromo-6-methoxy-4-(trifluoromethoxy)phenyl]-4-hydroxy-8-methoxy-, (5a,8a)- (CA INDEX NAME)

Relative stereochemistry.

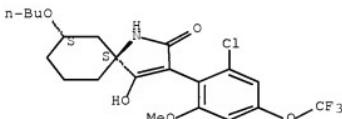


RN 1021854-99-8 CAPLUS
 CN 2H-Pyrrol-2-one, 3-[2-chloro-6-methoxy-4-(trifluoromethoxy)phenyl]-1,5-dihydro-4-hydroxy-5,5-dimethyl- (CA INDEX NAME)



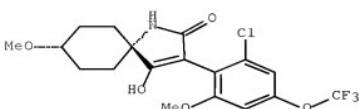
RN 1021855-01-5 CAPLUS
 CN 1-Azaspido[4.5]dec-3-en-2-one, 7-butoxy-3-[2-chloro-6-methoxy-4-(trifluoromethoxy)phenyl]-4-hydroxy-, (5R,7R)-rel- (CA INDEX NAME)

Relative stereochemistry.

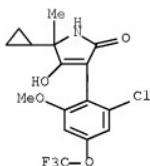


RN 1021855-05-9 CAPLUS
 CN 1-Azaspido[4.5]dec-3-en-2-one, 3-[2-chloro-6-methoxy-4-(trifluoromethoxy)phenyl]-4-hydroxy-8-methoxy-, (5a,8a)- (CA INDEX NAME)

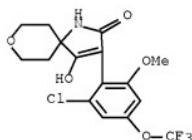
Relative stereochemistry.



RN 1021855-07-1 CAPLUS
CN 2H-Pyrrol-2-one, 3-[2-chloro-6-methoxy-4-(trifluoromethoxy)phenyl]-5-cyclopropyl-1,5-dihydro-4-hydroxy-5-methyl- (CA INDEX NAME)

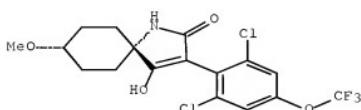


RN 1021855-09-3 CAPLUS
CN 8-Oxa-1-azaspiro[4.5]dec-3-en-2-one,
3-[2-chloro-6-methoxy-4-(trifluoromethoxy)phenyl]-4-hydroxy- (CA INDEX NAME)

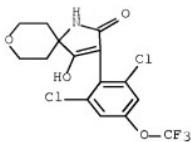


RN 1021855-11-7 CAPLUS
CN 1-Azaspiro[4.5]dec-3-en-2-one, 3-[2,6-dichloro-4-(trifluoromethoxy)phenyl]-4-hydroxy-8-methoxy-, (5a,8a)- (CA INDEX NAME)

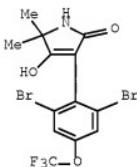
Relative stereochemistry.



RN 1021855-13-9 CAPLUS
CN 8-Oxa-1-azaspiro[4.5]dec-3-en-2-one,
3-[2,6-dichloro-4-(trifluoromethoxy)phenyl]-4-hydroxy- (CA INDEX NAME)

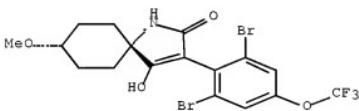


RN 1021855-15-1 CAPLUS
 CN 2H-Pyrrol-2-one, 3-[2,6-dibromo-4-(trifluoromethoxy)phenyl]-1,5-dihydro-4-hydroxy-5,5-dimethyl- (CA INDEX NAME)



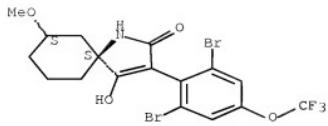
RN 1021855-17-3 CAPLUS
 CN 1-Azaspiro[4.5]dec-3-en-2-one, 3-[2,6-dibromo-4-(trifluoromethoxy)phenyl]-4-hydroxy-8-methoxy-, (5a,8a)- (CA INDEX NAME)

Relative stereochemistry.



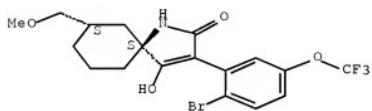
RN 1021855-19-5 CAPLUS
 CN 1-Azaspiro[4.5]dec-3-en-2-one, 3-[2,6-dibromo-4-(trifluoromethoxy)phenyl]-4-hydroxy-7-methoxy-, (5R,7R)-rel- (CA INDEX NAME)

Relative stereochemistry.



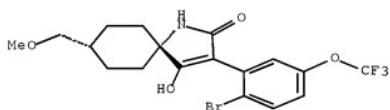
RN 1021855-21-9 CAPLUS
 CN 1-Azaspiro[4.5]dec-3-en-2-one, 3-[2-bromo-5-(trifluoromethoxy)phenyl]-4-hydroxy-7-(methoxymethyl)-, (5R,7R)-rel- (CA INDEX NAME)

Relative stereochemistry.

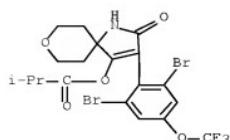


RN 1021855-23-1 CAPLUS
 CN 1-Azaspiro[4.5]dec-3-en-2-one, 3-[2-bromo-5-(trifluoromethoxy)phenyl]-4-hydroxy-8-(methoxymethyl)-, (5a,8a)- (CA INDEX NAME)

Relative stereochemistry.



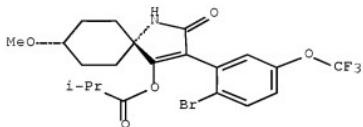
RN 1021855-25-3 CAPLUS
 CN Propanoic acid, 2-methyl-, 3-[2,6-dibromo-4-(trifluoromethoxy)phenyl]-2-oxo-8-oxa-1-azaspiro[4.5]dec-3-en-4-yl ester (CA INDEX NAME)



RN 1021855-27-5 CAPLUS

CN Propanoic acid, 2-methyl-, (5*a*,8*a*)-3-[2-bromo-5-(trifluoromethoxy)phenyl]-8-methoxy-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ester (CA INDEX NAME)

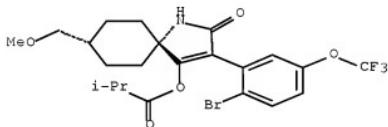
Relative stereochemistry.



RN 1021855-29-7 CAPLUS

CN Propanoic acid, 2-methyl-, (5*a*,8*a*)-3-[2-bromo-5-(trifluoromethoxy)phenyl]-8-(methoxymethyl)-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ester (CA INDEX NAME)

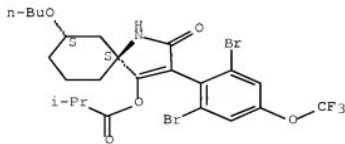
Relative stereochemistry.



RN 1021855-33-3 CAPLUS

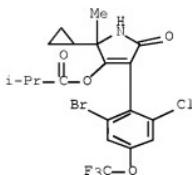
CN Propanoic acid, 2-methyl-, (5*R*,7*R*)-7-butoxy-3-[2,6-dibromo-4-(trifluoromethoxy)phenyl]-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ester, rel-(CA INDEX NAME)

Relative stereochemistry.



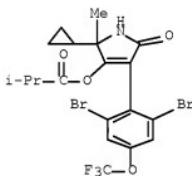
RN 1021855-35-5 CAPLUS

CN Propanoic acid, 2-methyl-, 4-[2-bromo-6-chloro-4-(trifluoromethoxy)phenyl]-2-cyclopropyl-2,5-dihydro-2-methyl-5-oxo-1H-pyrrol-3-yl ester (CA INDEX NAME)



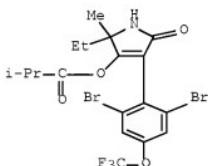
RN 1021855-37-7 CAPLUS

CN Propanoic acid, 2-methyl-, 2-cyclopropyl-4-[2,6-dibromo-4-(trifluoromethoxy)phenyl]-2,5-dihydro-2-methyl-5-oxo-1H-pyrrol-3-yl ester (CA INDEX NAME)



RN 1021855-39-9 CAPLUS

CN Propanoic acid, 2-methyl-, 4-[2,6-dibromo-4-(trifluoromethoxy)phenyl]-2-ethyl-2,5-dihydro-2-methyl-5-oxo-1H-pyrrol-3-yl ester (CA INDEX NAME)

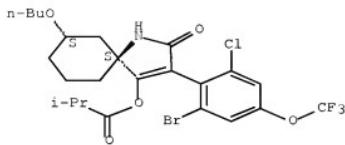


RN 1021855-41-3 CAPLUS

CN Propanoic acid, 2-methyl-, (5R,7R)-3-[2-bromo-6-chloro-4-(trifluoromethoxy)phenyl]-7-butoxy-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl

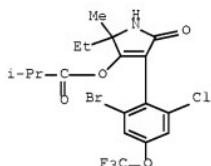
ester, rel- (CA INDEX NAME)

Relative stereochemistry.



RN 1021855-45-7 CAPLUS

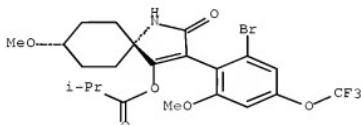
CN Propanoic acid, 2-methyl-, 4-[2-bromo-6-chloro-4-(trifluoromethoxy)phenyl]-2-ethyl-2,5-dihydro-2-methyl-5-oxo-1H-pyrrol-3-yl ester (CA INDEX NAME)



RN 1021855-47-9 CAPLUS

CN Propanoic acid, 2-methyl-, (5a,8a)-3-[2-bromo-6-methoxy-4-(trifluoromethoxy)phenyl]-8-methoxy-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ester (CA INDEX NAME)

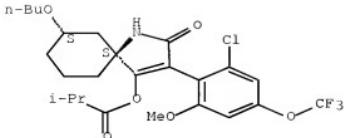
Relative stereochemistry.



RN 1021855-51-5 CAPLUS

CN Propanoic acid, 2-methyl-, (5R,7R)-7-butoxy-3-[2-chloro-6-methoxy-4-(trifluoromethoxy)phenyl]-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ester, rel- (CA INDEX NAME)

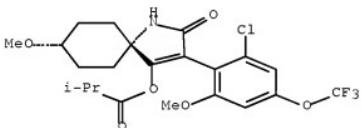
Relative stereochemistry.



RN 1021855-55-9 CAPLUS

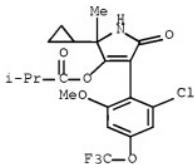
CN Propanoic acid, 2-methyl-, (5a,8a)-3-[2-chloro-6-methoxy-4-(trifluoromethoxy)phenyl]-8-methoxy-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ester (CA INDEX NAME)

Relative stereochemistry.



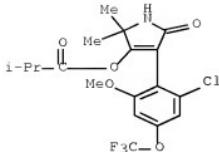
RN 1021855-57-1 CAPLUS

CN Propanoic acid, 2-methyl-, 4-[2-chloro-6-methoxy-4-(trifluoromethoxy)phenyl]-2-cyclopropyl-2,5-dihydro-2-methyl-5-oxo-1H-pyrrol-3-yl ester (CA INDEX NAME)



RN 1021855-59-3 CAPLUS

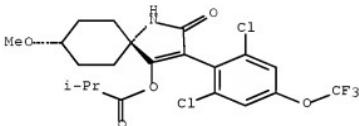
CN Propanoic acid, 2-methyl-, 4-[2-chloro-6-methoxy-4-(trifluoromethoxy)phenyl]-2,5-dihydro-2,2-dimethyl-5-oxo-1H-pyrrol-3-yl ester (CA INDEX NAME)



RN 1021855-61-7 CAPLUS

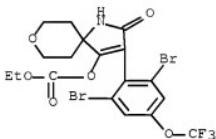
CN Propanoic acid, 2-methyl-, (5a,8a)-3-[2,6-dichloro-4-(trifluoromethoxy)phenyl]-8-methoxy-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ester (CA INDEX NAME)

Relative stereochemistry.



RN 1021855-63-9 CAPLUS

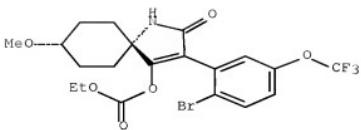
CN Carbonic acid, 3-[2,6-dibromo-4-(trifluoromethoxy)phenyl]-2-oxo-8-oxa-1-azaspiro[4.5]dec-3-en-4-yl ethyl ester (CA INDEX NAME)



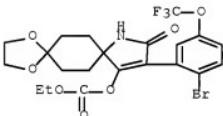
RN 1021855-65-1 CAPLUS

CN Carbonic acid, (5a,8a)-3-[2-bromo-5-(trifluoromethoxy)phenyl]-8-methoxy-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ethyl ester (CA INDEX NAME)

Relative stereochemistry.

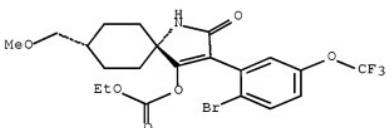


RN 1021855-67-3 CAPLUS
CN Carbonic acid, 11-[2-bromo-5-(trifluoromethoxy)phenyl]-10-oxo-1,4-dioxa-9-azadispiro[4.2.4.2]tetradec-11-en-12-yl ethyl ester (CA INDEX NAME)



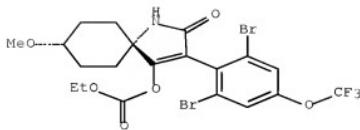
RN 1021855-69-5 CAPLUS
CN Carbonic acid, (5a,8a)-3-[2-bromo-5-(trifluoromethoxy)phenyl]-8-(methoxymethyl)-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ethyl ester (CA INDEX NAME)

Relative stereochemistry.



RN 1021855-71-9 CAPLUS
CN Carbonic acid, (5a,8a)-3-[2,6-dibromo-4-(trifluoromethoxy)phenyl]-8-methoxy-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ethyl ester (CA INDEX NAME)

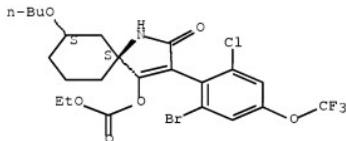
Relative stereochemistry.



RN 1021855-73-1 CAPLUS

CN Carbonic acid, (5R,7R)-3-[2-bromo-6-chloro-4-(trifluoromethoxy)phenyl]-7-butoxy-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ethyl ester, rel- (CA INDEX NAME)

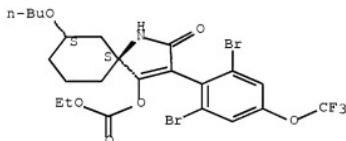
Relative stereochemistry.



RN 1021855-81-1 CAPLUS

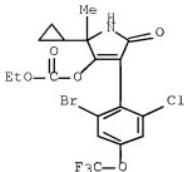
CN Carbonic acid, (5R,7R)-7-butoxy-3-[2,6-dibromo-4-(trifluoromethoxy)phenyl]-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ethyl ester, rel- (CA INDEX NAME)

Relative stereochemistry.



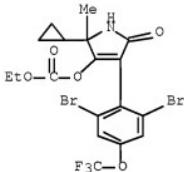
RN 1021855-87-7 CAPLUS

CN Carbonic acid, 4-[2-bromo-6-chloro-4-(trifluoromethoxy)phenyl]-2-cyclopropyl-2,5-dihydro-2-methyl-5-oxo-1H-pyrrol-3-yl ethyl ester (CA INDEX NAME)



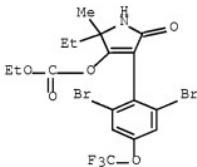
RN 1021855-89-9 CAPLUS

CN Carbonic acid, 2-cyclopropyl-4-[2,6-dibromo-4-(trifluoromethoxy)phenyl]-2,5-dihydro-2-methyl-5-oxo-1H-pyrrol-3-yl ethyl ester (CA INDEX NAME)



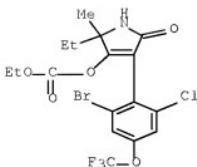
RN 1021855-91-3 CAPLUS

CN Carbonic acid, 4-[2,6-dibromo-4-(trifluoromethoxy)phenyl]-2-ethyl-2,5-dihydro-2-methyl-5-oxo-1H-pyrrol-3-yl ethyl ester (CA INDEX NAME)



RN 1021855-93-5 CAPLUS

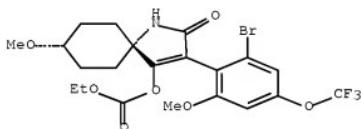
CN Carbonic acid, 4-[2-bromo-6-chloro-4-(trifluoromethoxy)phenyl]-2-ethyl-2,5-dihydro-2-methyl-5-oxo-1H-pyrrol-3-yl ethyl ester (CA INDEX NAME)



RN 1021855-95-7 CAPLUS

CN Carbonic acid, (5a,8a)-3-[2-bromo-6-methoxy-4-(trifluoromethoxy)phenyl]-8-methoxy-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ethyl ester (CA INDEX NAME)

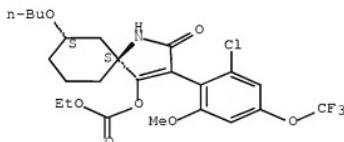
Relative stereochemistry.



RN 1021855-97-9 CAPLUS

CN Carbonic acid, (5R,7R)-7-butoxy-3-[2-chloro-6-methoxy-4-(trifluoromethoxy)phenyl]-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ethyl ester, rel- (CA INDEX NAME)

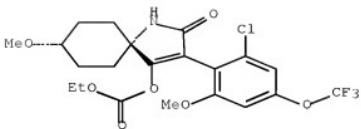
Relative stereochemistry.



RN 1021855-99-1 CAPLUS

CN Carbonic acid, (5a,8a)-3-[2-chloro-6-methoxy-4-(trifluoromethoxy)phenyl]-8-methoxy-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ethyl ester (CA INDEX NAME)

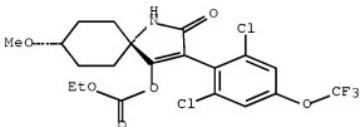
Relative stereochemistry.



RN 1021856-03-0 CAPLUS

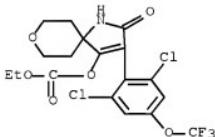
CN Carbonic acid, (5a,8a)-3-[2,6-dichloro-4-(trifluoromethoxy)phenyl]-8-methoxy-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ethyl ester (CA INDEX NAME)

Relative stereochemistry.



RN 1021856-05-2 CAPLUS

CN Carbonic acid, 3-[2,6-dichloro-4-(trifluoromethoxy)phenyl]-2-oxo-8-oxa-1-azaspiro[4.5]dec-3-en-4-yl ethyl ester (CA INDEX NAME)



L3 ANSWER 3 OF 53 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2008:187898 CAPLUS [Full-text](#)

DOCUMENT NUMBER: 148:208229

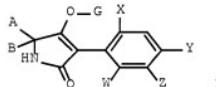
TITLE: Enhancement of the pesticidal activity of phenyltetramic acid derivs. by fertilizers

INVENTOR(S): Andersch, Wolfram; Fischer, Reiner; Hungenberg, Heike; Marczok, Peter; Pontzen, Rolf; Reckmann, Udo; Van Waetermeulen, Xavier Alain Marie; Kuehnhold, Juergen; Bell, John; Krueger, Stephen; Hinz, John

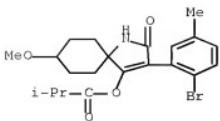
PATENT ASSIGNEE(S): Bayer Cropscience AG, Germany
SOURCE: PCT Int. Appl., 40pp.

CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: German
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

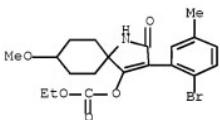
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
EP 1886564	A1	20080213	EP 2006-16607	20060809
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PRIORITY APPLN. INFO.:			EP 2006-16607	A 20060809
OTHER SOURCE(S):		MARPAT 148:208229		
GI				



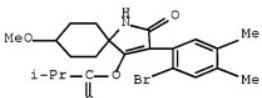
- AB The pesticidal activity of phenyltetramic acids I [X = halo, (halo)alkyl, (halo)alkoxy or cyano; W, Y, Z = H or X; A = H, (halo)alkyl, alkoxyalkyl, etc.; B = H or alkyl; ACB = ring; G, H, C(O)R1, etc.; R1 = (halo)alkyl, (halo)alkenyl, etc.] is enhanced by ammonium nitrate and/or urea fertilizers.
 IT 382608-07-3 382608-08-4 382608-13-1
 RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)
 (enhancement of the pesticidal activity of, by fertilizers)
 RN 382608-07-3 CAPLUS
 CN Propanoic acid, 2-methyl-, 3-(2-bromo-5-methylphenyl)-8-methoxy-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ester (CA INDEX NAME)



RN 382608-08-4 CAPLUS
CN Carbonic acid, 3-(2-bromo-5-methylphenyl)-8-methoxy-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ethyl ester (CA INDEX NAME)



RN 382608-13-1 CAPLUS
CN Propanoic acid, 2-methyl-, 3-(2-bromo-4,5-dimethylphenyl)-8-methoxy-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ester (CA INDEX NAME)



REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 4 OF 53 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 2007:1386793 CAPLUS [Full-text](#)
DOCUMENT NUMBER: 148:33615
TITLE: Preparation of cycloalkylphenylcyclic ketoenols as herbicides
INVENTOR(S): Fischer, Reiner; Lehr, Stefan; Feucht, Dieter; Malsam, Olga; Arnold, Christian; Hills, Martin Jeffrey; Kehne, Heinz; Rosinger, Christopher Hugh
PATENT ASSIGNEE(S): Bayer CropScience A.-G., Germany
SOURCE: Ger. Offen., 80pp.
CODEN: GWXXBX
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 102006025874	A1	20071206	DE 2006-102006025874	20060602
WO 2007140881	A1	20071213	WO 2007-EP4551	20070523
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LR, LS, LT, LU, LY, MA, MD, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW				
RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				

PRIORITY APPLN. INFO.: DE 2006-102006025874A 20060602

OTHER SOURCE(S): MARPAT 148:33615

GI

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB Title compds. I [W = H, alkyl, alkenyl, etc.; X = halo, alkyl, alkenyl, etc.; Y, Z = H, alkyl, alkenyl, etc.; A = alkylidienyl (sic); B = H, alkyl, alkoxyalkyl; D = alkoxy, alkenyloxy, alkynyloxy, etc.; G = H, COR1, SO2R3, etc.; R1 = alkyl, alkyl, alkenyl, etc.; R3 = alkyl, alkoxy, alkylamine, etc.] were prepared For example, t-BuOK mediated condensation/cyclization of ket ester II afforded cyclic ketoenol III in 94% yield. In *setaria viridis* protection assays, 15-examples of compds. I after 3-wk exhibited >80% protection at 320 g/h.

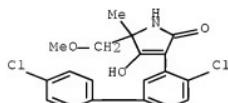
IT 958890-63-6P

RL: AGR (Agricultural use); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of cycloalkylphenylcyclic ketoenols as herbicides)

RN 958890-63-6 CAPLUS

CN 2H-Pyrrol-2-one, 3-(4,4'-dichloro[1,1'-biphenyl]-3-yl)-1,5-dihydro-4-hydroxy-5-(methoxymethyl)-5-methyl- (CA INDEX NAME)



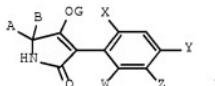
TITLE: Tetramic acid derivative acaricides and insecticides
 INVENTOR(S): Fischer, Reiner; Brueck, Ernst; Waetermeulen, Xavier
 Alain Van
 PATENT ASSIGNEE(S): Bayer Cropscience A.-G., Germany
 SOURCE: Ger. Offen., 20pp.
 CODEN: GWXXBX
 DOCUMENT TYPE: Patent
 LANGUAGE: German
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 102006022821	A1	20071115	DE 2006-102006022821	20060512
WO 2007131681	A2	20071122	WO 2007-EP4093	20070509
WO 2007131681	A3	20080626		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LR, LS, LT, LU, LY, MA, MD, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AP, EA, EP, OA				

PRIORITY APPLN. INFO.: DE 2006-102006022821A 20060512

OTHER SOURCE(S): MARPAT 147:497332

GI



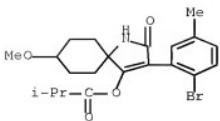
AB The tetramic acid derivs. I [X = halo, (halo)alkyl, (halo)alkoxy or cyano; W, Y, Z = H or X; A = H, (halo)alkyl, alkoxyalkyl, etc.; B = H or alkyl; ACB ring; G = C(O)R1, C(L)MR2, etc.; L, M = O or S; R1 = (halo)alkyl, (halo)alkenyl, (un)substituted Ph, phenylalkyl, etc.; R2 = (halo)alkyl, (halo)alkenyl, (un)substituted Ph cycloalkyl, benzyl, etc.] are acaricides and insecticides, useful for the control of Coleoptera, Thysanoptera, Hemiptera, Diptera and Cicadidae.

IT 382608-07-3 382608-08-4 382608-13-1

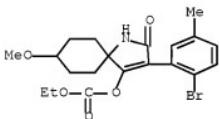
RL: AGR (Agricultural use); BIU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
(acaricide and insecticide)

RN 382608-07-3 CAPLUS

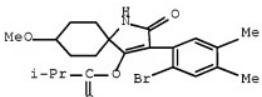
CN Propanoic acid, 2-methyl-, 3-(2-bromo-5-methylphenyl)-8-methoxy-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ester (CA INDEX NAME)



RN 382608-08-4 CAPLUS
CN Carbonic acid, 3-(2-bromo-5-methylphenyl)-8-methoxy-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ethyl ester (CA INDEX NAME)



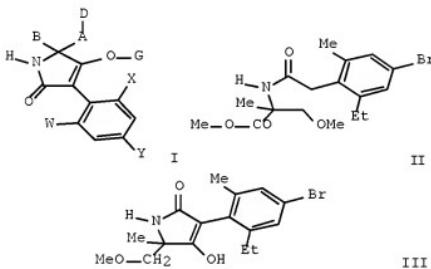
RN 382608-13-1 CAPLUS
CN Propanoic acid, 2-methyl-, 3-(2-bromo-4,5-dimethylphenyl)-8-methoxy-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ester (CA INDEX NAME)



L3 ANSWER 6 OF 53 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 2007:1209253 CAPLUS [Full-text](#)
DOCUMENT NUMBER: 147:486321
TITLE: Preparation of cycloalkylphenylcyclic ketoenols as herbicides
INVENTOR(S): Fischer, Reiner; Lehr, Stefan; Feucht, Dieter; Malsam, Olga; Hills, Martin Jeffrey; Kehne, Heinz; Rosinger, Christopher Hugh
PATENT ASSIGNEE(S): Bayer Cropscience AG, Germany
SOURCE: Ger. Offen., 88pp.
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 102006018828	A1	20071025	DE 2006-102006018828	20060422
WO 2007121868	A1	20071101	WO 2007-EP3245	20070412
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, US, UZ, VC, VN, ZA, ZM, ZW				
RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, ND, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				

PRIORITY APPLN. INFO.: DE 2006-102006018828A 20060422
OTHER SOURCE(S): MARPAT 147:486321
CT



AB Title compds. I [$W = H$, alkyl, alkenyl, etc.; $X = \text{halo}$, alkyl, alkenyl, etc.; $Y = H$, alkyl, alkenyl, etc.; $A = \text{alkylidendifyl}$ (sic); $B = H$, alkyl, alkoxyalkyl; $D = \text{alkoxy}$, alkenyloxy, alkynyloxy, etc.; $G = H$, COR₁, SO₂R₃, etc.; $R_1 = \text{alkyl}$, alkyl, alkenyl, etc.; $R_3 = \text{alkyl}$, alkoxy, alkylamine, etc.] were prepared. For example, t-BuOK mediated condensation/cyclization of ket ester II afforded cyclic ketoenol III in 61% yield. In *stetaria viridis* protection assays, 19-examples of compds. I after 3-wk exhibited >80% protection at 320 $\mu\text{g}/\text{h}$.

IT 954119-87-0P 954119-89-2P 954119-95-0P
954119-99-4P 954120-04-8P 954120-06-0P
954120-11-7P 954120-15-2P 954120-19-5P

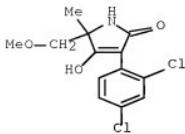
RL: AGR (Agricultural use); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of cycloalkylphenylcyclic ketoenols as herbicides)

BN 954119-87-0 CPLUS

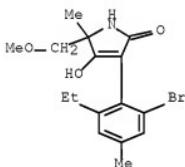
CN 2H-Pyrrol-2-one, 3-(2,4-dichlorophenyl)-1,5-dihydro-4-hydroxy-5-

(methoxymethyl)-5-methyl- (CA INDEX NAME)



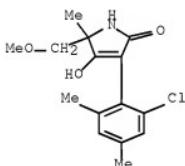
RN 954119-89-2 CAPLUS

CN 2H-Pyrrol-2-one, 3-(2-bromo-6-ethyl-4-methylphenyl)-1,5-dihydro-4-hydroxy-5-(methoxymethyl)-5-methyl- (CA INDEX NAME)



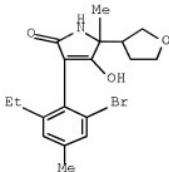
RN 954119-95-0 CAPLUS

CN 2H-Pyrrol-2-one, 3-(2-chloro-4,6-dimethylphenyl)-1,5-dihydro-4-hydroxy-5-(methoxymethyl)-5-methyl- (CA INDEX NAME)



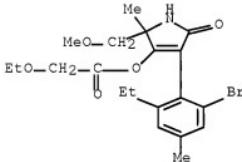
RN 954119-99-4 CAPLUS

CN 2H-Pyrrol-2-one, 3-(2-bromo-6-ethyl-4-methylphenyl)-1,5-dihydro-4-hydroxy-5-methyl-5-(tetrahydro-3-furanyl)- (CA INDEX NAME)



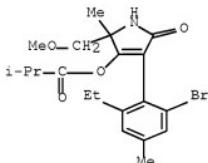
RN 954120-04-8 CAPLUS

CN Acetic acid, 2-ethoxy-, 4-(2-bromo-6-ethyl-4-methylphenyl)-2,5-dihydro-2-(methoxymethyl)-2-methyl-5-oxo-1H-pyrrol-3-yl ester (CA INDEX NAME)



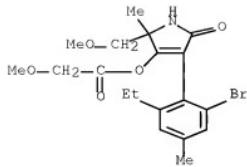
RN 954120-06-0 CAPLUS

CN Propanoic acid, 2-methyl-, 4-(2-bromo-6-ethyl-4-methylphenyl)-2,5-dihydro-2-(methoxymethyl)-2-methyl-5-oxo-1H-pyrrol-3-yl ester (CA INDEX NAME)



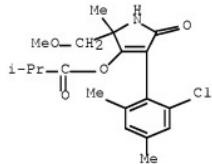
RN 954120-11-7 CAPLUS

CN Acetic acid, 2-methoxy-, 4-(2-bromo-6-ethyl-4-methylphenyl)-2,5-dihydro-2-(methoxymethyl)-2-methyl-5-oxo-1H-pyrrol-3-yl ester (CA INDEX NAME)



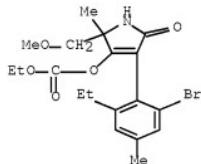
RN 954120-16-2 CAPLUS

CN Propanoic acid, 2-methyl-, 4-(2-chloro-4,6-dimethylphenyl)-2,5-dihydro-2-(methoxymethyl)-2-methyl-5-oxo-1H-pyrrol-3-yl ester (CA INDEX NAME)



RN 954120-19-5 CAPLUS

CN Carbonic acid, 4-(2-bromo-6-ethyl-4-methylphenyl)-2,5-dihydro-2-(methoxymethyl)-2-methyl-5-oxo-1H-pyrrol-3-yl ethyl ester (CA INDEX NAME)



L3 ANSWER 7 OF 53 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2007:1118005 CAPLUS [Full-text](#)

DOCUMENT NUMBER: 147:399917

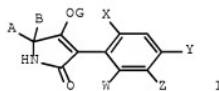
TITLE: Use of tetramic acid derivatives as insecticides and acaricides, applied to soil by pouring, droplet application or soil injection

INVENTOR(S): Fischer, Reiner; Baron, Gerhard; Reckmann, Udo; Marczok, Peter; Gladbach, Alexandra; Sanwald, Erich

PATENT ASSIGNEE(S): Bayer CropScience A.-G., Germany
 SOURCE: Ger. Offen., 13pp.
 CODEN: GWXXBX
 DOCUMENT TYPE: Patent
 LANGUAGE: German
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 102006014653	A1	20071004	DE 2006-102006014653	20060328
AU 2007243670	A1	20071108	AU 2007-243670	20070323
WO 2007126691	A2	20071108	WO 2007-US7195	20070323
WO 2007126691	A3	20080807		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AP, EA, EP, OA EP 2001301 A2 20081217 EP 2007-753794 20070323 R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, LV, MC, MT, NL, PL, PT, RO, SE, SI, SK, TR, AL, BA, HR, MK, RS KR 2008109037 A 20081216 KR 2008-725536 20081020 PRIORITY APPLN. INFO.: DE 2006-102006014653A 20060328 WO 2007-US7195 W 20070323				

OTHER SOURCE(S): MARPAT 147:399917
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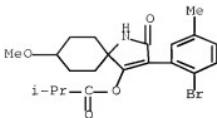
AB The tetramic acid derivs. I [X = halo, (halo)alkyl, (halo)alkoxy or cyano; W, Y, Z = H or X; A = H, (halo)alkyl, alkoxyalkyl, etc.; B = H or alkyl; ACB = ring; G = H, C(O)R1, etc.; R1 = (halo)alkyl, alkoxyalkyl, etc.] are insecticides and acaricides, applied to soil of the soil or substrate by pouring, droplet application or injection.

IT 382608-07-3 382608-08-4 382608-13-1
 647952-66-2 950842-85-0 950842-86-1

RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)
 (insecticide and acaricide)

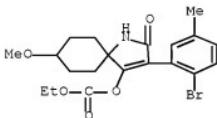
RN 382608-07-3 CAPLUS

CN Propanoic acid, 2-methyl-, 3-(2-bromo-5-methylphenyl)-8-methoxy-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ester (CA INDEX NAME)



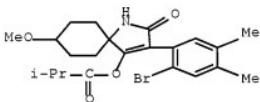
RN 382608-08-4 CAPLUS

CN Carbonic acid, 3-(2-bromo-5-methylphenyl)-8-methoxy-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ethyl ester (CA INDEX NAME)



RN 382608-13-1 CAPLUS

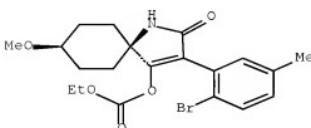
CN Propanoic acid, 2-methyl-, 3-(2-bromo-4,5-dimethylphenyl)-8-methoxy-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ester (CA INDEX NAME)



RN 647852-66-2 CAPLUS

CN Carbonic acid, cis-3-(2-bromo-5-methylphenyl)-8-methoxy-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ethyl ester (CA INDEX NAME)

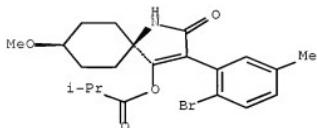
Relative stereochemistry.



RN 950842-85-0 CAPLUS

CN Propanoic acid, 2-methyl-, (5 α ,8 α)-3-(2-bromo-5-methylphenyl)-8-methoxy-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ester (CA INDEX NAME)

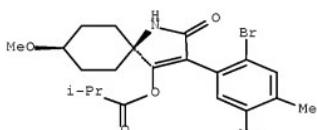
Relative stereochemistry.



RN 950842-86-1 CAPLUS

CN Propanoic acid, 2-methyl-, (5 α ,8 α)-3-(2-bromo-4,5-dimethylphenyl)-8-methoxy-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ester (CA INDEX NAME)

Relative stereochemistry.



L3 ANSWER 8 OF 53 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2007:968419 CAPLUS [Full-text](#)

DOCUMENT NUMBER: 147:322846

TITLE: Preparation of cycloalkylphenylcyclic ketoenols as herbicides

INVENTOR(S): Fischer, Reiner; Bretschneider, Thomas; Lehr, Stefan; Feucht, Dieter; Franken, Eva-Maria; Malsam, Olga; Angermann, Alfred; Bojack, Guido; Arnold, Christian; Hills, Martin Jeffrey; Kehne, Heinz; Rosinger, Christopher Hugh

PATENT ASSIGNEE(S): Bayer Cropscience A.-G., Germany

SOURCE: PCT Int. Appl., 314pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: German

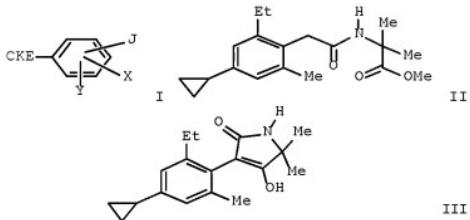
FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2007096058	A1	20070830	WO 2007-EP1075	20070208

W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, RU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW		
RW:	AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM		
DE 102006007882	A1 20070830	DE 2006-102006007882	20060221
AU 2007218300	A1 20070830	AU 2007-218300	20070208
CA 2642787	A1 20070830	CA 2007-2642787	20070208
EP 1989162	A1 20081112	EP 2007-703352	20070208
R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR			
IN 2008DN06899	A 20081024	IN 2008-DN6899	20080812
KR 2008094947	A 20081027	KR 2008-722339	20080912
PRIORITY APPLN. INFO.:		DE 2006-102006007882A WO 2007-EP1075	20060221 W 20070208

OTHER SOURCE(S): MARPAT 147:322846
GI



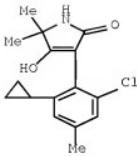
AB Title compds. I [$J = (J')m$; $J' =$ cycloalkyl; $m = 1-3$; $X = H$, alkyl, halo, etc.; $Y = H$, alkyl, alkoxy, etc., CKE = substituted 3-pyrrolin-2-ones, 2-buten-4-olides, 2(5H)-thiophenones, etc.] were prepared. For example, KOTBu/DMF mediated cyclization of dicarbonyl II afforded Tetrameric acid III in 36% yield. In *Setaria viridis* protection assays, 28-examples of compds. I after 3-wk exhibited >80% protection at 320 g/h.

IT 947609-34-9P 947609-35-0P 947609-36-1P
947609-37-3P 947609-74-7P 947609-87-2P
947609-91-8P 947609-95-2P

RL: ARG (Analytical reagent use); BSU (Biological study, unclassified);
SPN (Synthetic preparation); ANST (Analytical study); BIOL (Biological
study); PREP (Preparation); USES (Uses)
(preparation of cycloalkylphenylcyclic ketonepolis as herbicides)

(preparation of
BN 947609-34-9 CAPLUS)

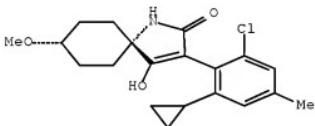
CN 2H-Pyrrol-2-one, 3-(2-chloro-6-cyclopropyl-4-methylphenyl)-1,5-dihydro-4-hydroxy-5,5-dimethyl- (CA INDEX NAME)



RN 947609-35-0 CAPLUS

CN 1-Azaspiro[4.5]dec-3-en-2-one, 3-(2-chloro-6-cyclopropyl-4-methylphenyl)-4-hydroxy-8-methoxy-, (5a,8a)- (CA INDEX NAME)

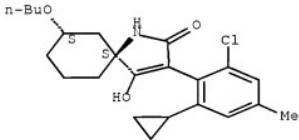
Relative stereochemistry.



RN 947609-36-1 CAPLUS

CN 1-Azaspiro[4.5]dec-3-en-2-one, 7-butoxy-3-(2-chloro-6-cyclopropyl-4-methylphenyl)-4-hydroxy-, (5R,7R)-rel- (CA INDEX NAME)

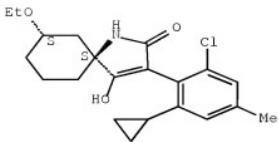
Relative stereochemistry.



RN 947609-38-3 CAPLUS

CN 1-Azaspiro[4.5]dec-3-en-2-one, 3-(2-chloro-6-cyclopropyl-4-methylphenyl)-7-ethoxy-4-hydroxy-, (5R,7R)-rel- (CA INDEX NAME)

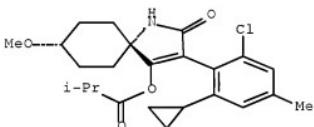
Relative stereochemistry.



RN 947609-74-7 CAPLUS

CN Propanoic acid, 2-methyl-, (5a,8a)-3-(2-chloro-6-cyclopropyl-4-methylphenyl)-8-methoxy-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ester (CA INDEX NAME)

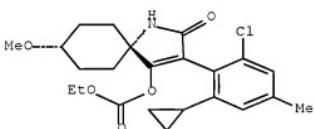
Relative stereochemistry.



RN 947609-87-2 CAPLUS

CN Carbonic acid, (5a,8a)-3-(2-chloro-6-cyclopropyl-4-methylphenyl)-8-methoxy-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ethyl ester (CA INDEX NAME)

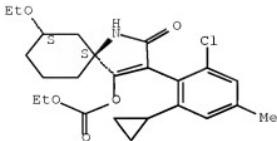
Relative stereochemistry.



RN 947609-91-8 CAPLUS

CN Carbonic acid, (5R,7R)-3-(2-chloro-6-cyclopropyl-4-methylphenyl)-7-ethoxy-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ethyl ester, rel- (CA INDEX NAME)

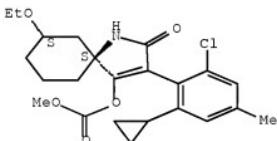
Relative stereochemistry.



RN 947609-95-2 CAPLUS

CN Carbonic acid, (SR,7R)-3-(2-chloro-6-cyclopropyl-4-methylphenyl)-7-ethoxy-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl methyl ester, rel- (CA INDEX NAME)

Relative stereochemistry.



REFERENCE COUNT: 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 9 OF 53 CAPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 2007:702811 CAPLUS [Full-text](#)
 DOCUMENT NUMBER: 147:118127
 TITLE: Preparation of 3'-alkoxyspirocyclopentyl substituted tetrameric and tetronic acids as insecticides and herbicides
 INVENTOR(S): Fischer, Reiner; Lehr, Stefan; Feucht, Dieter;
 Franken, Eva-Maria; Malsam, Olga; Bojack, Guido;
 Arnold, Christian; Hills, Martin Jeffrey; Kehne,
 Heinz; Rosinger, Christopher Hugh
 PATENT ASSIGNEE(S): Bayer Cropscience A.-G., Germany
 SOURCE: Ger. Offen., 93pp.
 CODEN: GWXXBX
 DOCUMENT TYPE: Patent
 LANGUAGE: German
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 102005059891	A1	20070628	DE 2005-102005059891	20051215
AU 2006331050	A1	20070705	AU 2006-331050	20061211
CA 2633525	A1	20070705	CA 2006-2633525	20061211
WO 2007073856	A2	20070705	WO 2006-EP11911	20061211
WO 2007073856	A3	20071115		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH,				

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 GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN,
 KP, KR, KZ, LA, LC, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK,
 MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO,
 RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT,
 TZ, UA, UC, US, UY, VG, VN, ZZ, ZM, ZW

RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE,
 IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BE, BJ,
 CF, CG, CI, CM, GA, GN, GO, GW, ML, MR, NE, SN, TD, TG, BW, GH,
 GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY,
 KG, KZ, MD, RU, TJ, TM, AP, EA, ER, EP, QR

RE, RE, RD, RO, RS, TA, TW, EA, LI, SA

R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE,
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IN 2008-DN04944 A 20080808 IN 2008-DN4944 20080609

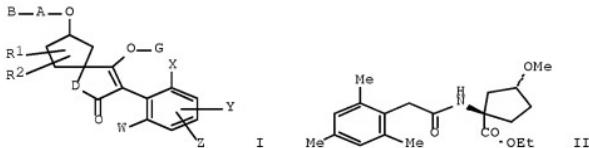
MX 200807562 A 20080625 MX 2008-7562 20080611

KR 2008083660 A 20080918 KR 2008-716924 20080711

PRIORITY APPLN. INFO.: DE 2005-102005059891A 20051215
WO 2006-EP11911 W 20061211

OTHER SOURCE(S): MARPAT 147:118127

G1



AB Title compds. [I; W = H, (halo)alkyl, alkenyl, alkynyl, etc.; X = halo, alkenyl, alkynyl, alkoxy, etc.; Y = H, halo, (halo)alkyl, alkenyl, alkynyl, CN, etc.; Z = H, halo, (halo)alkyl, CN, (halo)alkoxy; A = (substituted) alkylene, (hetero)cycloalkyl; B = H, (substituted) alkyl, alkenyl, alkoxy, etc.; or A = bond and B = H; D = NH, O; Q1 = H, (substituted) alkyl, alkoxy, alkoxyalkyl, alkylthioalkyl, etc.; Q2 = H, alkyl; or Q1Q2 = (substituted) 3-6 membered (hetero)cyclil; G = CH₂COR₁, CH₂C(L)MR₂, CH₂SO₂R₃, etc.; R₁ = (substituted) alkyl, alkenyl, alkoxyalkyl, etc.; R₂ = (substituted) alkyl, alkenyl, alkoxyalkyl, etc.; R₃ = (substituted) alkyl, alkoxy, alkylamino, etc. L, M = O, S], were prepared Thus, Me₃COK in dimethylacetamide was heated at 100° followed by portion-wise treatment with II (preparation given) in dimethylacetamide to give after 2 h stirring at 100° 42% I (W, X = Me; Y = H, Z = 4-Me; D = NH; G = H; A = CH₂; B = H; Q1, Q2 = H). The latter at 500 g/ha gave ≥80% kill of *Myzus persicae* on *Brassica pekinensis*.

IT 942614-03-1P 942614-04-2P 942614-08-6P

942614-11-12

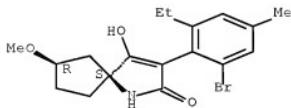
RL: AGR (Agricultural use); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of alkoxySpirocyclopentyl substituted tetramic and tetronic acids as insecticides and herbicides)

RN 942614-03-1 CAPLUS

CN 1-Azaspiro[4.4]non-3-en-2-one, 3-(2-bromo-6-ethyl-4-methylphenyl)-4-hydroxy-7-methoxy-, (5R,7S)-rel- (CA INDEX NAME)

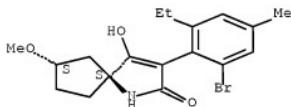
Relative stereochemistry.



RN 942614-04-2 CAPLUS

CN 1-Azaspiro[4.4]non-3-en-2-one, 3-(2-bromo-6-ethyl-4-methylphenyl)-4-hydroxy-7-methoxy-, (5R,7R)-rel- (CA INDEX NAME)

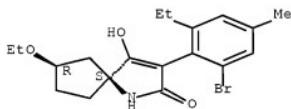
Relative stereochemistry.



RN 942614-08-6 CAPLUS

CN 1-Azaspiro[4.4]non-3-en-2-one, 3-(2-bromo-6-ethyl-4-methylphenyl)-7-ethoxy-4-hydroxy-, (5R,7S)-rel- (CA INDEX NAME)

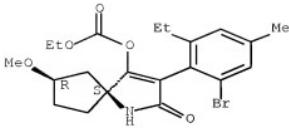
Relative stereochemistry.



RN 942614-11-1 CAPLUS

CN Carbonic acid, (5R,7S)-3-(2-bromo-6-ethyl-4-methylphenyl)-7-methoxy-2-oxo-1-azaspiro[4.4]non-3-en-4-yl ethyl ester, rel- (CA INDEX NAME)

Relative stereochemistry.



L3 ANSWER 10 OF 53 CAPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 2007:670565 CAPLUS Full-text

DOCUMENT NUMBER: 147:66051

TITLE: Enhancement of the herbicidal activity of

INVENTOR(S): phenyl-substituted cyclic ketoenols by ammonium salts
 Fischer, Reiner; Lehr, Stefan; Feucht, Dieter;
 Bickers, Udo; Huff, Hans Philipp; Hacker, Erwin;
 Suessmann, Rainer

PATENT ASSIGNEE(S): Bayer Cropscience A.-G., Germany

SOURCE: PCT Int. Appl., 121pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: German

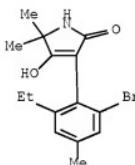
FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

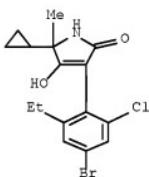
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2007068427	A2	20070621	WO 2006-EP11910	20061211
WO 2007068427	A3	20080619		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW				
RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AP, EA, EP, OA				
DE 102005059471	A1	20070712	DE 2005-102005059471	20051213
AU 2006326299	A1	20070621	AU 2006-326299	20061211
CA 2633448	A1	20070621	CA 2006-2633448	20061211
EP 1962590	A2	20080903	EP 2006-829500	20061211
R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, AL, BA, HR, MK, RS				
IN 2008DN04760	A	20080815	IN 2008-DN4760	20080603
MX 2008074743	A	20080620	MX 2008-7473	20080610
KR 2008078890	A	20080828	KR 2008-716930	20080711
PRIORITY APPLN. INFO.:			DE 2005-102005059471A	20051213
			WO 2006-EP11910	W 20061211

OTHER SOURCE(S): MARPAT 147:66051

AB The herbicidal activity of known fatty-acid-biosynthesis-inhibiting phenyl-substituted cyclic ketoenols (Markush given) is enhanced by the addition of ammonium and/or phosphonium salts and, optionally, penetration promoters.
 IT 952069-73-9 941689-16-3
 RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)
 (herbicide with enhanced activity)
 RN 852069-73-9 CAPLUS
 CN 2H-Pyrrol-2-one, 3-(2-bromo-6-ethyl-4-methylphenyl)-1,5-dihydro-4-hydroxy-5,5-dimethyl- (CA INDEX NAME)



RN 941689-16-3 CAPLUS
 CN 2H-Pyrrol-2-one, 3-(4-bromo-2-chloro-6-ethylphenyl)-5-cyclopropyl-1,5-dihydro-4-hydroxy-5-methyl- (CA INDEX NAME)

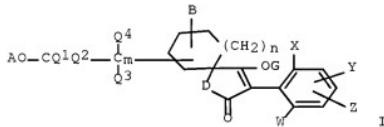


L3 ANSWER 11 OF 53 CAPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 2007:486207 CAPLUS [Full-text](#)
 DOCUMENT NUMBER: 146:456840
 TITLE: Preparation of alkoxyalkyl spirocyclic tetrameric acids and tetronec acids as fungicides, herbicides and insecticides
 INVENTOR(S): Fischer, Reiner; Gaertzen, Oliver; Lehr, Stefan; Feucht, Dieter; Malsam, Olga; Drewes, Mark Wilhelm; Franken, Eva-Maria; Arnold, Christian; Auler, Thomas; Hills, Martin Jeffrey; Kehne, Heinz; Rosinger, Chris Hugh; Bretschneider, Thomas; Bojack, Guido; Dittgen, Jan
 PATENT ASSIGNEE(S): Bayer CropScience A.-G., Germany
 SOURCE: PCT Int. Appl., 21lpp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent

LANGUAGE: German
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2007048545	A2	20070503	WO 2006-EP10130	20061020
WO 2007048545	A3	20070712		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, RU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW				
RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AP, EA, EP, OA				
DE 102005051325	A1	20070503	DE 2005-102005051325	20051027
AU 2006308203	A1	20070503	AU 2006-308203	20061020
CA 2627240	A1	20070503	CA 2006-2627240	20061020
EP 1943218	A2	20080716	EP 2006-840920	20061020
R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR				
IN 2008DN03240	A	20080704	IN 2008-DN3240	20080421
MX 200805292	A	20080507	MX 2008-5292	20080423
KR 2008065670	A	20080714	KR 2008-712511	20080526
PRIORITY APPLN. INFO.:			DE 2005-102005051325A	20051027
			WO 2006-EP10130	W 20061020

OTHER SOURCE(S): MARPAT 146:456840
 GI



AB The invention relates to the preparation of alkoxyalkyl spirocyclic tetramic acids and tetrone acids I [W = H, (halo)alkyl, alkaryl, alkynyl, halo, (halo)alkoxy or cyano; X = H, halo, alkyl, (halo)alkyl, (halo)alkoxy, alkaryl, alkynyl, alkoxy, alkoxyalkoxy, cyano; Y = H, halo, (halo)alkyl, (halo)alkoxy, cyano, (un)substituted Ph or heteroaryl; Z = H, halom, (halo)alkyl, (halo)alkoxy, cyano or alkoxy; A = h, (halo)alkyl, (halo)alkenyl, (halo)alkynyl, etc.; B = H alkyl or alkoxy; D = NH or O; Q1, Q2, Q3, Q4 = H or alkyl; AOCQ1 = (un)substituted ring; m = 0, 1 or 2; n = 0 or 1; G = H, C(O)R1, etc.; R1 = haloalkyl, cyanoalkyl, haloalkenyl, cyanoalkenyl, etc.] are prepared as herbicides, fungicides and insecticides. A large no. of safeneers are given for the herbicidal use of I.

IT 934819-05-3P 934819-15-5P 934819-23-5P

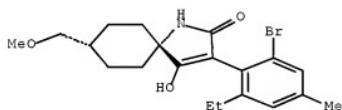
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934820-23-2P 934820-26-5P 934820-31-2P
934820-33-4P

RL: AGR (Agricultural use); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation as fungicide, herbicide and insecticide)

RN 934819-05-3 CAPLUS

CN 1-Azaspiro[4.5]dec-3-en-2-one, 3-(2-bromo-6-ethyl-4-methylphenyl)-4-hydroxy-8-(methoxymethyl)-, cis- (CA INDEX NAME)

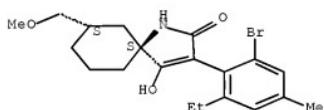
Relative stereochemistry.



RN 934819-15-5 CAPLUS

CN 1-Azaspiro[4.5]dec-3-en-2-one, 3-(2-bromo-6-ethyl-4-methylphenyl)-4-hydroxy-7-(methoxymethyl)-, (5R,7R)-rel- (CA INDEX NAME)

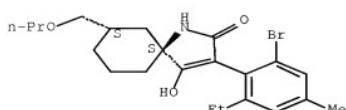
Relative stereochemistry.



RN 934819-23-5 CAPLUS

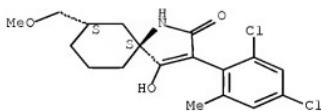
CN 1-Azaspiro[4.5]dec-3-en-2-one, 3-(2-bromo-6-ethyl-4-methylphenyl)-4-hydroxy-7-(propoxymethyl)-, (5R,7R)-rel- (CA INDEX NAME)

Relative stereochemistry.



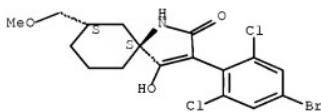
RN 934819-27-9 CAPLUS
CN 1-Azaspido[4.5]dec-3-en-2-one, 3-(2,4-dichloro-6-methylphenyl)-4-hydroxy-7-(methoxymethyl)-, (5R,7R)-rel- (CA INDEX NAME)

Relative stereochemistry.



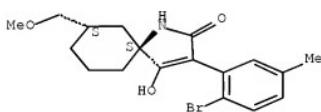
RN 934819-31-5 CAPLUS
CN 1-Azaspido[4.5]dec-3-en-2-one, 3-(4-bromo-2,6-dichlorophenyl)-4-hydroxy-7-(methoxymethyl)-, (5R,7R)-rel- (CA INDEX NAME)

Relative stereochemistry.



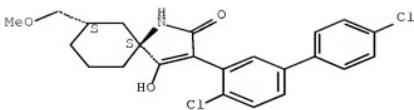
RN 934819-34-8 CAPLUS
CN 1-Azaspido[4.5]dec-3-en-2-one, 3-(2-bromo-5-methylphenyl)-4-hydroxy-7-(methoxymethyl)-, (5R,7R)-rel- (CA INDEX NAME)

Relative stereochemistry.



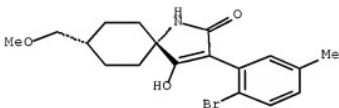
RN 934819-36-0 CAPLUS
CN 1-Azaspido[4.5]dec-3-en-2-one, 3-(4,4'-dichloro[1,1'-biphenyl]-3-yl)-4-hydroxy-7-(methoxymethyl)-, (5R,7R)-rel- (CA INDEX NAME)

Relative stereochemistry.



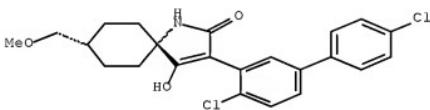
RN 934819-45-1 CAPLUS
 CN 1-Azaspiro[4.5]dec-3-en-2-one, 3-(2-bromo-5-methylphenyl)-4-hydroxy-8-(methoxymethyl)-, cis- (CA INDEX NAME)

Relative stereochemistry.



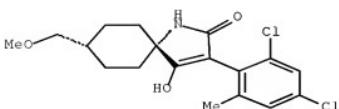
RN 934819-46-2 CAPLUS
 CN 1-Azaspiro[4.5]dec-3-en-2-one, 3-(4,4'-dichloro[1,1'-biphenyl]-3-yl)-4-hydroxy-8-(methoxymethyl)-, cis- (CA INDEX NAME)

Relative stereochemistry.



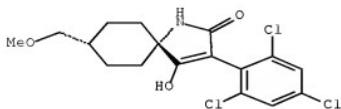
RN 934819-47-3 CAPLUS
 CN 1-Azaspiro[4.5]dec-3-en-2-one, 3-(2,4-dichloro-6-methylphenyl)-4-hydroxy-8-(methoxymethyl)-, cis- (CA INDEX NAME)

Relative stereochemistry.



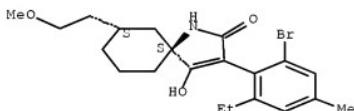
RN 934819-50-8 CAPLUS
CN 1-Azaspiro[4.5]dec-3-en-2-one, 4-hydroxy-8-(methoxymethyl)-3-(2,4,6-trichlorophenyl)-, cis- (CA INDEX NAME)

Relative stereochemistry.



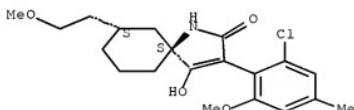
RN 934819-56-4 CAPLUS
CN 1-Azaspiro[4.5]dec-3-en-2-one, 3-(2-bromo-6-ethyl-4-methylphenyl)-4-hydroxy-7-(2-methoxyethyl)-, (5R,7R)-rel- (CA INDEX NAME)

Relative stereochemistry.



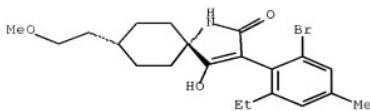
RN 934819-58-6 CAPLUS
CN 1-Azaspiro[4.5]dec-3-en-2-one, 3-(2-chloro-6-methoxy-4-methylphenyl)-4-hydroxy-7-(2-methoxyethyl)-, (5R,7R)-rel- (CA INDEX NAME)

Relative stereochemistry.



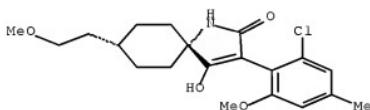
RN 934819-60-0 CAPLUS
CN 1-Azaspiro[4.5]dec-3-en-2-one, 3-(2-bromo-6-ethyl-4-methylphenyl)-4-hydroxy-8-(2-methoxyethyl)-, cis- (CA INDEX NAME)

Relative stereochemistry.



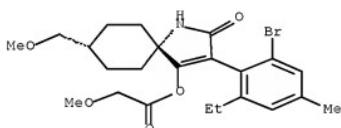
RN 934819-63-3 CAPLUS
 CN 1-Azaspiro[4.5]dec-3-en-2-one, 3-(2-chloro-6-methoxy-4-methylphenyl)-4-hydroxy-8-(2-methoxyethyl)-, cis- (CA INDEX NAME)

Relative stereochemistry.



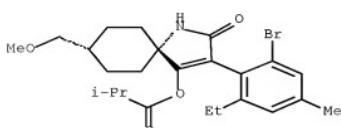
RN 934819-74-6 CAPLUS
 CN Acetic acid, 2-methoxy-, cis-3-(2-bromo-6-ethyl-4-methoxyphenyl)-8-(methoxymethyl)-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ester (CA INDEX NAME)

Relative stereochemistry.



RN 934819-77-9 CAPLUS
 CN Propanoic acid, 2-methyl-, cis-3-(2-bromo-6-ethyl-4-methoxyphenyl)-8-(methoxymethyl)-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ester (CA INDEX NAME)

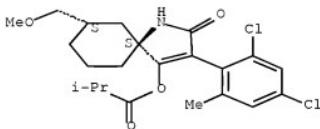
Relative stereochemistry.



RN 934819-83-7 CAPLUS

CN Propanoic acid, 2-methyl-, (5R,7R)-3-(2,4-dichloro-6-methylphenyl)-7-(methoxymethyl)-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ester, rel- (CA INDEX NAME)

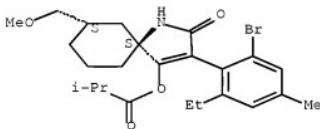
Relative stereochemistry.



RN 934819-89-3 CAPLUS

CN Propanoic acid, 2-methyl-, (5R,7R)-3-(2-bromo-6-ethyl-4-methylphenyl)-7-(methoxymethyl)-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ester, rel- (CA INDEX NAME)

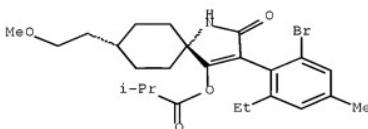
Relative stereochemistry.



RN 934819-91-7 CAPLUS

CN Propanoic acid, 2-methyl-, cis-3-(2-bromo-6-ethyl-4-methylphenyl)-8-(2-methoxyethyl)-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ester (CA INDEX NAME)

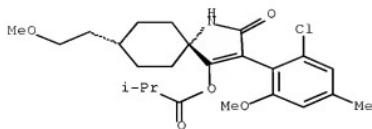
Relative stereochemistry.



RN 934819-93-9 CAPLUS

CN Propanoic acid, 2-methyl-, cis-3-(2-chloro-6-methoxy-4-methylphenyl)-8-(2-methoxyethyl)-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ester (CA INDEX NAME)

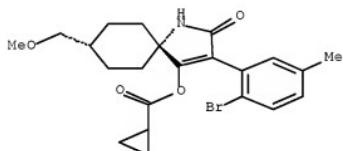
Relative stereochemistry.



RN 934819-95-1 CAPLUS

CN Cyclopropanecarboxylic acid, cis-3-(2-bromo-5-methylphenyl)-8-(methoxymethyl)-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ester (CA INDEX NAME)

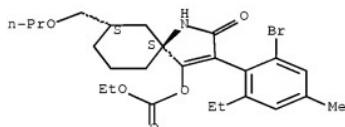
Relative stereochemistry.



RN 934820-00-5 CAPLUS

CN Carbonic acid, (5R,7R)-3-(2-bromo-6-ethyl-4-methylphenyl)-2-oxo-7-(propoxymethyl)-1-azaspiro[4.5]dec-3-en-4-yl ethyl ester, rel- (CA INDEX NAME)

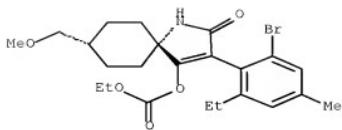
Relative stereochemistry.



RN 934820-01-6 CAPLUS

CN Carbonic acid, cis-3-(2-bromo-6-ethyl-4-methylphenyl)-8-(methoxymethyl)-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ethyl ester (CA INDEX NAME)

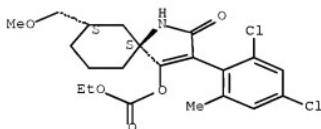
Relative stereochemistry.



RN 934820-05-0 CAPLUS

CN Carbonic acid, (5R,7R)-3-(2,4-dichloro-6-methylphenyl)-7-(methoxymethyl)-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ethyl ester, rel- (CA INDEX NAME)

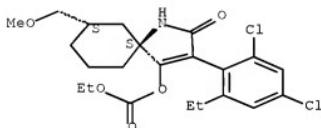
Relative stereochemistry.



RN 934820-07-2 CAPLUS

CN Carbonic acid, (5R,7R)-3-(2,4-dichloro-6-ethylphenyl)-7-(methoxymethyl)-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ethyl ester, rel- (CA INDEX NAME)

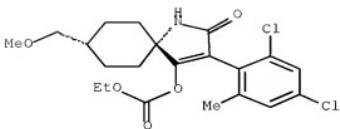
Relative stereochemistry.



RN 934820-15-2 CAPLUS

CN Carbonic acid, cis-3-(2,4-dichloro-6-methylphenyl)-8-(methoxymethyl)-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ethyl ester (CA INDEX NAME)

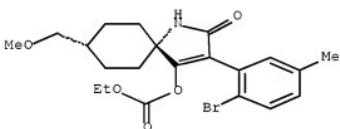
Relative stereochemistry.



RN 934820-16-3 CAPLUS

CN Carbonic acid, cis-3-(2-bromo-5-methylphenyl)-8-(methoxymethyl)-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ethyl ester (CA INDEX NAME)

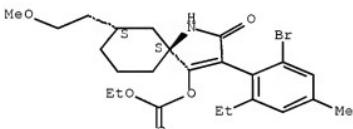
Relative stereochemistry.



RN 934820-19-6 CAPLUS

CN Carbonic acid, (5R,7R)-3-(2-bromo-6-ethyl-4-methylphenyl)-7-(2-methoxyethyl)-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ethyl ester, rel- (CA INDEX NAME)

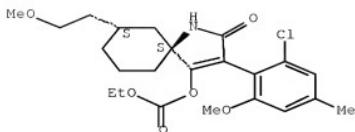
Relative stereochemistry.



RN 934820-22-1 CAPLUS

CN Carbonic acid, (5R,7R)-3-(2-chloro-6-methoxy-4-methylphenyl)-7-(2-methoxyethyl)-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ethyl ester, rel- (CA INDEX NAME)

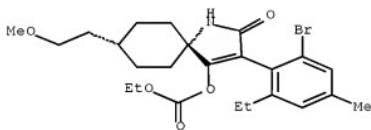
Relative stereochemistry.



RN 934820-23-2 CAPLUS

CN Carbonic acid, 3-(2-bromo-6-ethyl-4-methylphenyl)-8-(2-methoxyethyl)-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ethyl ester (CA INDEX NAME)

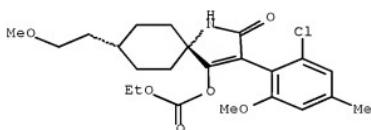
Relative stereochemistry.



RN 934820-26-5 CAPLUS

CN Carbonic acid, 3-(2-chloro-6-methoxy-4-methylphenyl)-8-(2-methoxyethyl)-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ethyl ester (CA INDEX NAME)

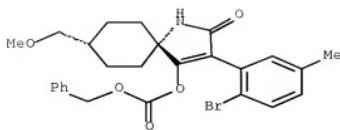
Relative stereochemistry.



RN 934820-31-2 CAPLUS

CN Carbonic acid, (5a,8a)-3-(2-bromo-5-methylphenyl)-8-(methoxymethyl)-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl phenylmethyl ester (CA INDEX NAME)

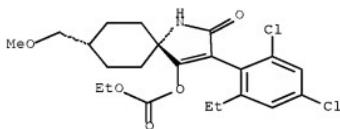
Relative stereochemistry.



RN 934820-33-4 CAPLUS

CN Carbonic acid, 3-(2,4-dichlorophenyl)-8-(methoxymethyl)-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ethyl ester (CA INDEX NAME)

Relative stereochemistry.



IT 934821-98-4 934822-00-1 934822-02-3

934822-08-9

RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)
(safened herbicidal composition)

RN 934821-98-4 CAPLUS

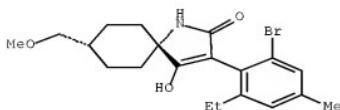
CN 1H-Pyrazole-3,5-dicarboxylic acid,
1-(2,4-dichlorophenyl)-4,5-dihydro-5-methyl-, mixt. with
cis-3-(2-bromo-6-ethyl-4-methylphenyl)-4-hydroxy-8-(methoxymethyl)-1-
azaspiro[4.5]dec-3-en-2-one (CA INDEX NAME)

CM 1

CRN 934819-05-3

CMF C20 H26 Br N O3

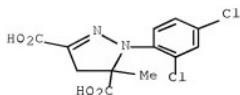
Relative stereochemistry.



CM 2

CRN 135591-00-3

CMF C12 H10 C12 N2 O4



RN 934822-00-1 CAPLUS

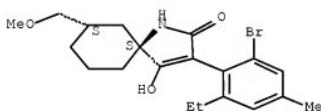
CN 1H-Pyrazole-3,5-dicarboxylic acid,
1-(2,4-dichlorophenyl)-4,5-dihydro-5-methyl-, mixt. with
rel-(5R,7R)-3-(2-bromo-6-ethyl-4-methylphenyl)-4-hydroxy-7-(methoxymethyl)-
1-azaspiro[4.5]dec-3-en-2-one (CA INDEX NAME)

CM 1

CRN 934819-15-5

CMF C20 H26 Br N O3

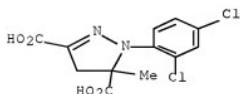
Relative stereochemistry.



CM 2

CRN 135591-00-3

CMF C12 H10 C12 N2 O4



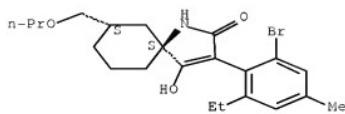
RN 934822-02-3 CAPLUS

CN 1H-Pyrazole-3,5-dicarboxylic acid,
1-(2,4-dichlorophenyl)-4,5-dihydro-5-methyl-, mixt. with
rel-(5R,7R)-3-(2-bromo-6-ethyl-4-methylphenyl)-4-hydroxy-7-(propoxymethyl)-
1-azaspiro[4.5]dec-3-en-2-one (CA INDEX NAME)

CM 1

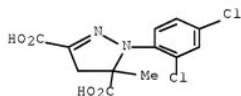
CRN 934819-23-5
CMF C22 H30 Br N O3

Relative stereochemistry.



CM 2

CRN 135591-00-3
CMF C12 H10 Cl2 N2 O4

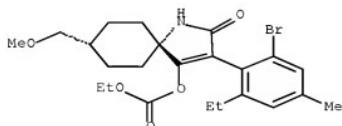


RN 934822-08-9 CAPLUS
CN Carbonic acid, cis-3-(2-bromo-6-ethyl-4-methylphenyl)-8-(methoxymethyl)-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ethyl ester, mixt. with
N-[(4-((cyclopropylamino)carbonyl)phenyl)sulfonyl]-2-methoxybenzamide (CA
INDEX NAME)

CM 1

CRN 934820-01-6
CMF C23 H30 Br N O5

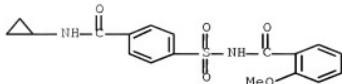
Relative stereochemistry.



CM 2

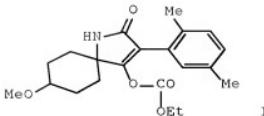
CRN 221667-31-8

CMF C18 H18 N2 O5 S



L3 ANSWER 12 OF 53 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 2006:849890 CAPLUS [Full-text](#)
DOCUMENT NUMBER: 145:243217
TITLE: Synergistic combinations of cyclic ketoenols and ethiprole as insecticides and acaricides
INVENTOR(S): Fischer, Reiner; Hungenberg, Heike; Thielert, Wolfgang
PATENT ASSIGNEE(S): Bayer CropScience A.-G., Germany
SOURCE: Ger. Offen., 23pp.
CODEN: GWXXBX
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 102005008033	A1	20060824	DE 2005-102005008033	20050222
AU 2006218277	A1	20060831	AU 2006-218277	20060214
WO 2006089665	A2	20060831	WO 2006-EP1326	20060214
WO 2006089665	A3	20070301		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
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EP 1855532	A2	20071121	EP 2006-706933	20060214
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JP 2008531488	T	20080814	JP 2007-555515	20060214
IN 2007DN06367	A	20070831	IN 2007-DN6367	20070816
KR 2007106568	A	20071101	KR 2007-721285	20070917
CN 101160051	A	20080409	CN 2006-80012596	20071015
US 20080287435	A1	20081120	US 2008-884845	20080417
PRIORITY APPLN. INFO.:			DE 2005-102005008033A	20050222
OTHER SOURCE(S): GI			WO 2006-EP1326	W 20060214



AB Combinations of certain cyclic ketoenols and ethiprole possess very good insecticidal and acaricidal characteristics. Thus, I + ethiprole mixture at 4 + 20 ppm synergistically controlled *Myzus persicae* on infested leaves of *Brassica oleracea*.

IT 905988-51-4 905988-54-7 905988-61-6

RL: AGR (Agricultural use); BSU (Biological study, unclassified); BIOL (Biological study); USES (Uses)
(synergistic insecticide and acaricide)

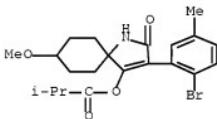
RN 905988-51-4 CAPLUS

CN Propanoic acid, 2-methyl-, 3-(2-bromo-5-methylphenyl)-8-methoxy-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ester, mixt. with 5-amino-1-[2,6-dichloro-4-(trifluoromethyl)phenyl]-4-(ethylsulfinyl)-1H-pyrazole-3-carbonitrile (9CI) (CA INDEX NAME)

CM 1

CRN 382608-07-3

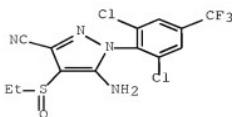
CMF C21 H26 Br N O4



CM 2

CRN 181587-01-9

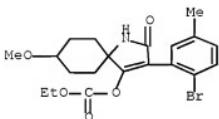
CMF C13 H9 Cl2 F3 N4 O S



RN 905988-54-7 CAPLUS
CN Carbonic acid, 3-(2-bromo-5-methylphenyl)-8-methoxy-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ethyl ester, mixt. with 5-amino-1-[2,6-dichloro-4-(trifluoromethyl)phenyl]-4-(ethylsulfinyl)-1H-pyrazole-3-carbonitrile (9CI) (CA INDEX NAME)

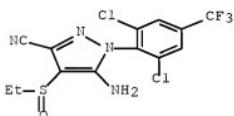
CM 1

CRN 382608-08-4
CMF C20 H24 Br N O5



CM 2

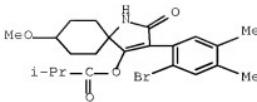
CRN 181587-01-9
CMF C13 H9 Cl2 F3 N4 O S



RN 905988-61-6 CAPLUS
CN Propanoic acid, 2-methyl-, 3-(2-bromo-4,5-dimethylphenyl)-8-methoxy-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ester, mixt. with 5-amino-1-[2,6-dichloro-4-(trifluoromethyl)phenyl]-4-(ethylsulfinyl)-1H-pyrazole-3-carbonitrile (9CI) (CA INDEX NAME)

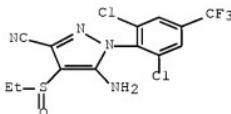
CM 1

CRN 382608-13-1
CMF C22 H28 Br N O4



CM 2

CRN 181587-01-9
CMF C13 H9 Cl2 F3 N4 O S



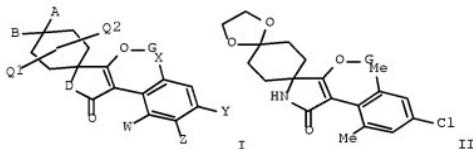
L3 ANSWER 13 OF 53 CAPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 2006:849886 CAPLUS [Full-text](#)
 DOCUMENT NUMBER: 1451271639
 TITLE: Preparation of 4-hydroxy-3-phenyl-2H-pyrrol-2-ones and related compounds as pesticides
 INVENTOR(S): Bretschneider, Thomas; Fischer, Reiner; Gaertzen, Oliver; Lehr, Stefan; Drewes, Mark Wilhelm; Feucht, Dieter; Malsam, Olga; Reckmann, Udo; Arnold, Christian; Auler, Thomas; Hempel, Waltraud; Hills, Martin; Kehne, Heinz; Sanwald, Erich
 PATENT ASSIGNEE(S): Bayer Cropscience A.-G., Germany
 SOURCE: Ger. Offen., 117pp.
 CODEN: GWXXBX
 DOCUMENT TYPE: Patent
 LANGUAGE: German
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 102005008021	A1	20060824	DE 2005-102005008021	20050222
AU 2006218154	A1	20060831	AU 2006-218154	20060208
CA 2597777	A1	20060831	CA 2006-2597777	20060208
WO 2006089633	A2	20060831	WO 2006-EP1089	20060208
WO 2006089633	A3	20061123		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LC, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC,				

VN, YU, ZA, ZM, ZW
 RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE,
 IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ,
 CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH,
 GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY,
 KG, KZ, MD, RU, TJ, TM

EP 1855529	A2	20071121	EP 2006-701829	20060208
R:	AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR			
JP 2008531486	T	20080814	JP 2007-555500	20060208
MX 200710111	A	20070925	MX 2007-10111	20070820
KR 2007106554	A	20071101	KR 2007-720676	20070910
CN 101160049	A	20080409	CN 2006-80012797	20071017
US 20080305955	A1	20081211	US 2008-884887	20080403
PRIORITY APPLN. INFO.:			DE 2005-102005008021A	20050222
			WO 2006-EP1089	W 20060208

OTHER SOURCE(S): MARPAT 145:271639
 GI



AB Title compds. I [W = H, alkyl, alkenyl, etc.; X = halo, alkyl, alkenyl, etc.; Y, Z = H, alkyl, alkenyl, etc.; A, B = alkyl, haloalkyl, alkoxy, etc.; D = NH, O; Q1, Q2 = H, alkyl, haloalkyl, etc.; G = H, COR1, etc.; R1 = halo or CN substituted alkyl, alkenyl, alkoxyalkyl, etc.] were prepared. For example, O-acylation of hydroxyphenylpyrrolone II [G = H] with isobutyric acid chloride afforded pyrrolone II [G = COCH(CH₃)₂] in 14% yield. In *Myzus persicae* protection assays at 1000 ppm, 8-examples of compds. I exhibited ≥80% protection after 5 days.

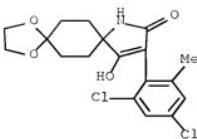
IT 907187-09-1P 907187-11-5P 907187-15-9P
 907187-44-4P 907187-47-7P

RL: AGR (Agricultural use); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of hydroxyphenylpyrrolones and related compds. as pesticides)

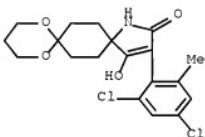
RN 907187-09-1 CAPLUS

CN 1,4-Dioxa-9-azadispiro[4.2.4.2]tetradec-11-en-10-one,
 11-(2,4-dichloro-6-methylphenyl)-12-hydroxy- (CA INDEX NAME)



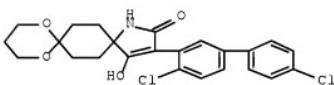
RN 907187-11-5 CAPLUS

CN 9,13-Dioxa-1-azadispiro[4.2.5.2]pentadec-3-en-2-one,
3-(2,4-dichloro-6-methylphenyl)-4-hydroxy- (CA INDEX NAME)



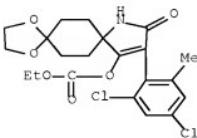
RN 907187-15-9 CAPLUS

CN 9,13-Dioxa-1-azadispiro[4.2.5.2]pentadec-3-en-2-one,
3-(4,4'-dichloro[1,1'-biphenyl]-3-yl)-4-hydroxy- (CA INDEX NAME)



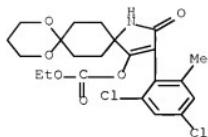
RN 907187-44-4 CAPLUS

CN Carbonic acid, 11-(2,4-dichloro-6-methylphenyl)-10-oxo-1,4-dioxa-9-azadispiro[4.2.4.2]tetradec-11-en-12-yl ethyl ester (CA INDEX NAME)



RN 907187-47-7 CAPLUS

CN Carbonic acid, 3-(2,4-dichloro-6-methylphenyl)-1,2-dihydro-2-oxo-9,13-dioxa-1-azadispiro[4.2.5.2]pentadec-3-en-4-yl ethyl ester (9CI) (CA INDEX NAME)

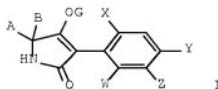


L3 ANSWER 14 OF 53 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 2006:736517 CAPLUS Full-text
DOCUMENT NUMBER: 145:139214
TITLE: Use of tetrameric acid derivatives for the control of Stenorrhina (plant lice)
INVENTOR(S): Fischer, Reiner; Hungenberg, Heike; Brueck, Ernst; Nauen, Ralf; Thielert, Wolfgang
PATENT ASSIGNEE(S): Bayer CropScience Aktiengesellschaft, Germany
SOURCE: PCT Int. Appl., 61 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2006077071	A2	20060727	WO 2006-EP356	20060117
WO 2006077071	A3	20070118		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LY, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
DE 102005003076	A1	20060727	DE 2005-102005003076	20050122
AU 2006207604	A1	20060727	AU 2006-207604	20060117
CA 2595359	A1	20060727	CA 2006-2595359	20060117
EP 1843660	A2	20071017	EP 2006-706259	20060117
R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR				
CN 101106902	A	20080116	CN 2006-80002926	20060117
JP 2008528454	T	20080731	JP 2007-551599	20060117
MX 200708615	A	20070911	MX 2007-8615	20070716
KR 2007106514	A	20071101	KR 2007-718240	20070808
PRIORITY APPLN. INFO.:			DE 2005-102005003076A	20050122

OTHER SOURCE(S) :
GI

MARPAT 145:139214



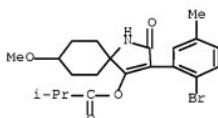
AB The invention relates to the use of tetramic acid derivs. I [X = halo, (halo)alkyl, (halo)alkoxy or CN; W, Y, Z = H or X; A = H, (halo)alkyl, alkoxyalkyl, (un)substituted cycloalkyl or heterocycl; B = H or alkyl; ACB = cycle; G = H, C(O)R1, C(L)MR2, etc.; L, M = O or S; R1 = (halo)alkyl, alkenyl, etc.; R2 = (halo)alkyl, alkenyl, alkoxy alkyl, polyalkoxyalkyl, (un)substituted cycloalkyl, Ph or benzyl] for control of insects of the plant louse suborder (Stenorrhina).

IT 382608-07-3

RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)
(insecticide for control of Stenorrhina)

RN 382608-07-3 CAPLUS

CN Propanoic acid, 2-methyl-, 3-(2-bromo-5-methylphenyl)-8-methoxy-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ester (CA INDEX NAME)

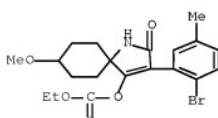


IT 382608-08-4 382608-13-1

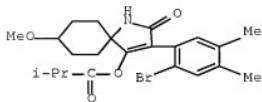
RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)
(use of tetramic acid derivs. for the control of Stenorrhina)

RN 382608-08-4 CAPLUS

CN Carbonic acid, 3-(2-bromo-5-methylphenyl)-8-methoxy-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ethyl ester (CA INDEX NAME)



RN 382608-13-1 CAPLUS
CN Propanoic acid, 2-methyl-, 3-(2-bromo-4,5-dimethylphenyl)-8-methoxy-2-oxo-
1-azaspiro[4.5]dec-3-en-4-yl ester (CA INDEX NAME)



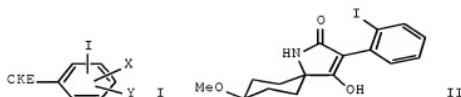
REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 15 OF 53 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 2006:273688 CAPLUS [Full-text](#)
DOCUMENT NUMBER: 144:331254
TITLE: Iodophenyl-substituted cyclic keto enols and their preparation, agrochemical compositions, and use as pesticides and/or herbicides
INVENTOR(S): Fischer, Reiner; Bretschneider, Thomas; Ilg, Kerstin; Lehr, Stefan; Feucht, Dieter; Malsam, Olga; Reckmann, Udo; Bojack, Guido; Arnold, Christian; Auler, Thomas; Hills, Martin, Jeffrey; Kehne, Heinz; Hempel, Waltraud; Sanwald, Erich
PATENT ASSIGNEE(S): Bayer Cropscience A.-G., Germany
SOURCE: PCT Int. Appl., 263 pp.
CODEN: PIXD2
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2006029799	A1	20060323	WO 2005-EP9807	20050913
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
DE 102004044827	A1	20060323	DE 2004-102004044827	20040916
AU 2005284318	A1	20060323	AU 2005-284318	20050913
CA 2580328	A1	20060323	CA 2005-2580328	20050913
EP 1791816	A1	20070606	EP 2005-783004	20050913
R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR				

CN 101056852	A	20071017	CN 2005-80038290	20050913
JP 2008513391	T	20080501	JP 2007-531656	20050913
BR 2005015398	A	20080722	BR 2005-15398	20050913
IN 2007-DN02012	A	20070817	IN 2007-DN2012	20070315
KR 2007054240	A	20070528	KR 2007-708281	20070412
PRIORITY APPLN. INFO.:			DE 2004-102004044827A	20040916
			WO 2005-EP9807	W 20050913

OTHER SOURCE(S) : MARPAT 144:331254
GI



AB The invention relates to iodophenyl-substituted cyclic keto enols of formula I, several methods and intermediate products for the production thereof and the use thereof as pesticide agents and/or herbicides which contain iodophenyl-substituted cyclic keto enols of formula I and at least one compound which improves the compatibility of cultivated plants. Compds. of formula I wherein X is (halo)alkyl, or (halo)alkoxy; Y is alkyl, halo, alkoxy, at least one of I, X or Y stands in the 2-position of the Ph ring; CKE is (un)substituted 2-oxo-pyrrolinyl, (un)substituted 2-oxodihydrofuryl, (un)substituted 2-oxidihydrothienyl, (un)substituted oxopyranyl derivs., (un)substituted oxothiazinyl, (un)substituted oxocyclopentenyl derivs., (un)substituted oxocycloalkenyl derivs., or (un)substituted oxopyrazolyl derivs., etc. are claimed in this invention. Example compound II was prepared by amidation of cis-1-amino-4-methoxycyclohexanecarboxylic acid Me ester hydrochloride with 2-iodophenylacetic acid; the resulting cis-N-cyclohexyl-phenylacetamide underwent cyclization to give compound II. All the invention compds. were evaluated for their pesticidal and herbicidal activity. Several example compds. showed good pesticidal activity (> 80%) against *Phaedon cochleariae*, *Myzus persicae*, *Nilaparvata lugens*, and *Tetranychus urticae*. Some of the invention compds. also showed good herbicidal activity (>70%) against *Avena sativa*, *Lolium multiflorum*, *Setaria viridis*, and *Echinochloa crus-galli*.

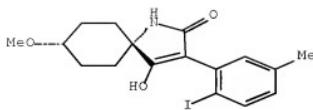
IT 880132-92-3P

RL: AGR (Agricultural use); BSU (Biological study, unclassified); RCT (Reactant); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)
(agrochem. compound and intermediate; preparation of iodophenyl-substituted cyclic keto enols and their use as pesticides and/or herbicides)

RN 880132-92-3 CAPLUS

CN 1-Azaspiro[4.5]dec-3-en-2-one, 4-hydroxy-3-(2-iodo-5-methylphenyl)-8-methoxy-, (5 α ,8 α)- (CA INDEX NAME)

Relative stereochemistry.



IT 880133-56-2P

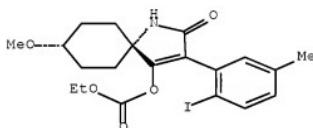
RL: AGR (Agricultural use); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)

(agrochem. compound and intermediate; preparation of iodophenyl-substituted cyclic keto enols and their use as pesticides and/or herbicides)

RN 880133-56-2 CAPLUS

CN Carbonic acid, ethyl cis-3-(2-iodo-5-methylphenyl)-8-methoxy-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ester (9CI) (CA INDEX NAME)

Relative stereochemistry.



IT 880132-84-3P 880132-86-5P 880132-90-1P

880132-94-5P 880132-96-7P 880133-00-6P

880133-01-7P 880133-21-1P 880133-25-5P

880133-29-8P 880133-29-9P 880133-32-4P

880133-33-5P 880133-34-6P 880133-35-7P

880133-43-7P 880133-54-0P 880133-55-1P

880133-57-3P 880133-58-4P 880133-61-9P

880133-65-3P

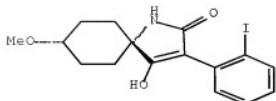
RL: AGR (Agricultural use); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)

(agrochem. compound; preparation of iodophenyl-substituted cyclic keto enols and their use as pesticides and/or herbicides)

RN 880132-84-3 CAPLUS

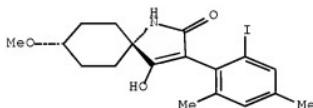
CN 1-Azaspiro[4.5]dec-3-en-2-one, 4-hydroxy-3-(2-iodophenyl)-8-methoxy-, (5a,8a)- (CA INDEX NAME)

Relative stereochemistry.



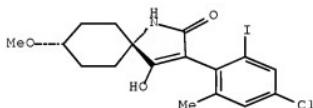
RN 880132-86-5 CAPLUS
 CN 1-Azaspiro[4.5]dec-3-en-2-one, 4-hydroxy-3-(2-iodo-4,6-dimethylphenyl)-8-methoxy-, (5a,8a)- (CA INDEX NAME)

Relative stereochemistry.

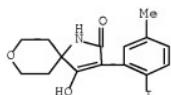


RN 880132-90-1 CAPLUS
 CN 1-Azaspiro[4.5]dec-3-en-2-one, 3-(4-chloro-2-iodo-6-methylphenyl)-4-hydroxy-8-methoxy-, (5a,8a)- (CA INDEX NAME)

Relative stereochemistry.

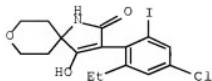


RN 880132-94-5 CAPLUS
 CN 8-Oxa-1-azaspiro[4.5]dec-3-en-2-one, 4-hydroxy-3-(2-iodo-5-methylphenyl)- (CA INDEX NAME)



RN 880132-96-7 CAPLUS
 CN 8-Oxa-1-azaspiro[4.5]dec-3-en-2-one,

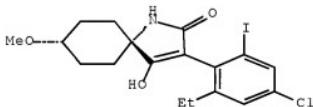
3-(4-chloro-2-ethyl-6-iodophenyl)-4-hydroxy- (CA INDEX NAME)



RN 880133-00-6 CAPLUS

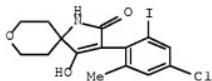
CN 1-Azaspiro[4.5]dec-3-en-2-one, 3-(4-chloro-2-ethyl-6-iodophenyl)-4-hydroxy-8-methoxy-, (5a,8a)- (CA INDEX NAME)

Relative stereochemistry.



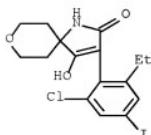
RN 880133-01-7 CAPLUS

CN 8-Oxa-1-azaspiro[4.5]dec-3-en-2-one,
3-(4-chloro-2-iodo-6-methylphenyl)-4-hydroxy- (CA INDEX NAME)

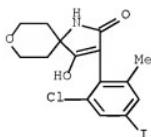


RN 880133-21-1 CAPLUS

CN 8-Oxa-1-azaspiro[4.5]dec-3-en-2-one,
3-(2-chloro-6-ethyl-4-iodophenyl)-4-hydroxy- (CA INDEX NAME)

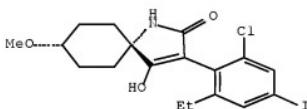


RN 880133-25-5 CAPLUS
CN 8-Oxa-1-azaspiro[4.5]dec-3-en-2-one,
3-(2-chloro-4-iodo-6-methylphenyl)-4-hydroxy- (CA INDEX NAME)



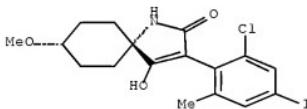
RN 880133-28-8 CAPLUS
CN 1-Azaspiro[4.5]dec-3-en-2-one, 3-(2-chloro-6-ethyl-4-iodophenyl)-4-hydroxy-
8-methoxy-, (5a,8a)- (CA INDEX NAME)

Relative stereochemistry.



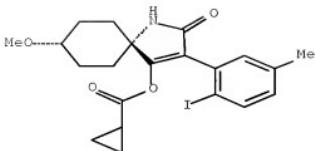
RN 880133-29-9 CAPLUS
CN 1-Azaspiro[4.5]dec-3-en-2-one, 3-(2-chloro-4-iodo-6-methylphenyl)-4-
hydroxy-8-methoxy-, (5a,8a)- (CA INDEX NAME)

Relative stereochemistry.



RN 880133-32-4 CAPLUS
CN Cyclopropanecarboxylic acid, (5a,8a)-3-(2-iodo-5-methylphenyl)-
8-methoxy-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ester (CA INDEX NAME)

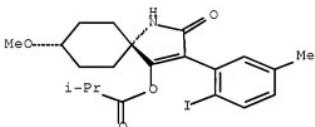
Relative stereochemistry.



RN 880133-33-5 CAPLUS

CN Propanoic acid, 2-methyl-, (5a,8a)-3-(2-iodo-5-methylphenyl)-8-methoxy-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ester (CA INDEX NAME)

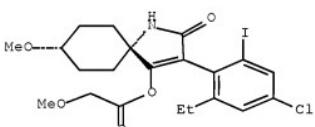
Relative stereochemistry.



RN 880133-34-6 CAPLUS

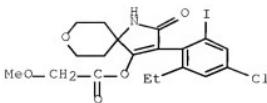
CN Acetic acid, 2-methoxy-, (5a,8a)-3-(4-chloro-2-ethyl-6-iodophenyl)-8-methoxy-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ester (CA INDEX NAME)

Relative stereochemistry.



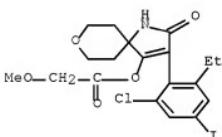
RN 880133-35-7 CAPLUS

CN Acetic acid, 2-methoxy-, 3-(4-chloro-2-ethyl-6-iodophenyl)-2-oxo-8-oxa-1-azaspiro[4.5]dec-3-en-4-yl ester (CA INDEX NAME)



RN 880133-43-7 CAPLUS

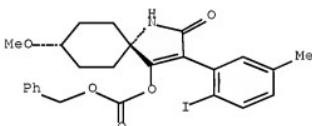
CN Acetic acid, 2-methoxy-, 3-(2-chloro-6-ethyl-4-iodophenyl)-2-oxo-8-oxa-1-azaspiro[4.5]dec-3-en-4-yl ester (CA INDEX NAME)



RN 880133-54-0 CAPLUS

CN Carbonic acid, cis-3-(2-iodo-5-methylphenyl)-8-methoxy-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl phenylmethyl ester (9CI) (CA INDEX NAME)

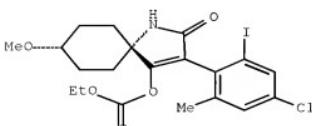
Relative stereochemistry.



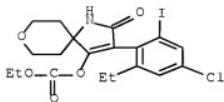
RN 880133-55-1 CAPLUS

CN Carbonic acid, cis-3-(4-chloro-2-iodo-6-methylphenyl)-8-methoxy-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ethyl ester (9CI) (CA INDEX NAME)

Relative stereochemistry.

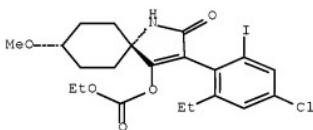


RN 880133-57-3 CAPLUS
CN Carbonic acid, 3-(4-chloro-2-ethyl-6-iodophenyl)-2-oxo-8-oxa-1-azaspiro[4.5]dec-3-en-4-yl ethyl ester (CA INDEX NAME)

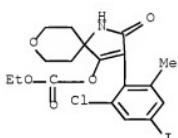


RN 880133-58-4 CAPLUS
CN Carbonic acid, cis-3-(4-chloro-2-ethyl-6-iodophenyl)-8-methoxy-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ethyl ester (9CI) (CA INDEX NAME)

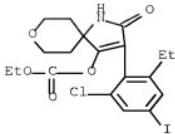
Relative stereochemistry.



RN 880133-61-9 CAPLUS
CN Carbonic acid, 3-(2-chloro-4-iodo-6-methylphenyl)-2-oxo-8-oxa-1-azaspiro[4.5]dec-3-en-4-yl ethyl ester (CA INDEX NAME)



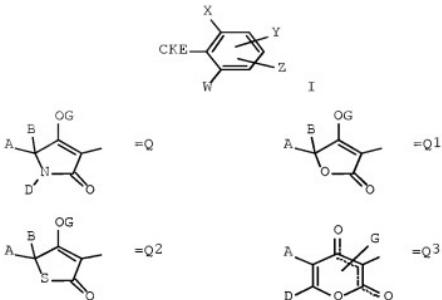
RN 880133-65-3 CAPLUS
CN Carbonic acid, 3-(2-chloro-6-ethyl-4-iodophenyl)-2-oxo-8-oxa-1-azaspiro[4.5]dec-3-en-4-yl ethyl ester (CA INDEX NAME)



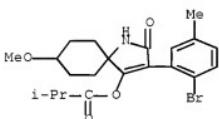
REFERENCE COUNT: 18 THERE ARE 18 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 16 OF 53 CAPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 2006174894 CAPLUS [Full-text](#)
 DOCUMENT NUMBER: 144:165830
 TITLE: Selective synergistic insecticides and acaricides based on cyclic ketoenols and safeners
 INVENTOR(S): Fischer, Reiner; Reckmann, Udo; Rosinger, Christopher Hugh; Sanwald, Erich; Arnold, Christian
 PATENT ASSIGNEE(S): Bayer CropScience AG, Germany
 SOURCE: PCT Int. Appl., 109 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: German
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

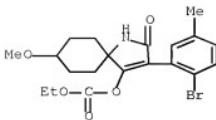
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2006008111	A1	20060126	WO 2005-EP7794	20050718
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
DE 102004035133	A1	20060216	DE 2004-102004035133	20040720
AU 2005263570	A1	20060126	AU 2005-263570	20050718
CA 2574216	A1	20060126	CA 2005-2574216	20050718
EP 1771067	A1	20070411	EP 2005-776440	20050718
R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR				
CN 101018483	A	20070815	CN 2005-80030721	20050718
JP 2008506743	T	20080306	JP 2007-521877	20050718
BR 2005013532	A	20080506	BR 2005-13532	20050718
IN 2007DN00972	A	20070803	IN 2007-DN972	20070206
PRIORITY APPLN. INFO.:			DE 2004-102004035133A	20040720
OTHER SOURCE(S):	MARPAT	144:165830	WO 2005-EP7794	W 20050718
GI				



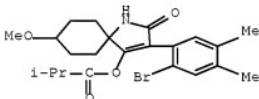
- AB The title insecticides and acaricides comprise (a) at least one cyclic ketoenoil I [CKE = Q, Q1, Q2, Q3, etc.; X = halo, (halo)alkyl, alkenyl, alkynyl, etc.; Z = H, alkyl, halo, alkenyl, alkynyl, (un)substituted aryl or heteroaryl; W, Y = H, halo, (halo)alkyl, (halo)alkoxy, etc.; A = H, (halo)alkyl, (halo)alkenyl, etc.; B = H, alkyl or alkoxyalkyl; D = H, alkyl, alkenyl, alkynyl, alkoxyalkyl, cycloalkyl, heterocyclyl, etc.; G = H, C(O)R1, etc.; R1 = (halo)alkyl, (halo)alkenyl, (un)substituted Ph, etc.; ACB, ACD = ring] and (b) at least one compound which improves crop plant tolerance.
- IT 382608-07-3D, mixts. with safeners 382608-09-4D, mixts. with safeners 382608-13-1D, mixts. with safeners
- RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)
(selective synergistic insecticides and acaricides)
- RN 382608-07-3 CAPPLUS
- CN Propanoic acid, 2-methyl-, 3-(2-bromo-5-methylphenyl)-8-methoxy-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ester (CA INDEX NAME)



- RN 382608-08-4 CAPPLUS
- CN Carbonic acid, 3-(2-bromo-5-methylphenyl)-8-methoxy-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ethyl ester (CA INDEX NAME)



RN 382608-13-1 CAPLUS
 CN Propanoic acid, 2-methyl-, 3-(2-bromo-4,5-dimethylphenyl)-8-methoxy-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ester (CA INDEX NAME)



REFERENCE COUNT: 13 THERE ARE 13 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

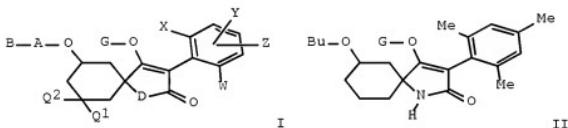
L3 ANSWER 17 OF 53 CAPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 2006:15861 CAPLUS [Full-text](#)
 DOCUMENT NUMBER: 144:108201
 TITLE: Preparation of 3-alkoxyspirotetramic acids and related compounds as pesticides
 INVENTOR(S): Fischer, Reiner; Gaertzen, Oliver; Lehr, Stefan; Bretschneider, Thomas; Feucht, Dieter; Malsam, Olga; Arnold, Christian; Auler, Thomas; Hills, Martin Jeffrey; Kehne, Heinz; Rosinger, Chris; De; De
 PATENT ASSIGNEE(S): Bayer Cropscience AG, Germany
 SOURCE: PCT Int. Appl., 239 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: German
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2006000355	A1	20060105	WO 2005-EP6588	20050618
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM,				

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DE 102004030753	A1	20060119	DE 2004-102004030753	20040625
AU 2005256426	A1	20060105	AU 2005-256426	20050618
CA 2572141	A1	20060105	CA 2005-2572141	20050618
EP 1761490	A1	20070314	EP 2005-754755	20050618
R: AT, BE, BG, CH, IS, IT, LI, LT,	CH, CY, CZ, DE, MC, NL, PL, PT, RO, SE, SI, SK, TR		EE, ES, FI, FR, GR, HU, IE	
CN 101006056	A	20070725	CN 2005-80028500	20050618
BR 200511071	A	20071127	BR 2005-11071	20050618
JP 2008503521	T	20080207	JP 2007-517166	20050618
IN 2006DN7760	A	20070817	IN 2006-DN7760	20061220
KR 2007035045	A	20070329	KR 2007-701626	20070123
RITY APPLN. INFO.:			DE 2004-102004030753A	20040625
			WO 2005-EP6588	20050618

OTHER SOURCE(S): MARPAT 144:108201
GI



AB Title compds. I [$W = H$, alkyl, halo, etc.; $X = \text{halo}$, alkyl, alkoxy, etc.; $Y = 4$ -position with H , halo, alkoxy, etc.; $Z = H$ with provisos; $D = NH$, O ; $Q_1 = H$, alkyl, alkoxy, etc.; $Q_2 = H$, alkyl; $G = COR_1, SO_2R_3$, etc.; $R_1 = \text{alkyl}$, alkenyl, alkoxyalkyl, etc.; $R_3 = \text{alkyl}$, alkoxy, alkylamino, etc.; $A = \text{alkandiyI (sic) with provisos}$; $B = H$, alkyl, alkenyl, etc.] were prepared. For example, O -acylation of alc. II ($G = H$) with 2-methylpropionyl chloride afforded ester II ($G = COCH(CH_3)_2$) in 94% yield. In *Myzus persicae* protection assays at 100 g/ha, 82-examples of compds. I exhibited >90% protection after 5 days.

IT	872844-07-0P	872844-06-1P	872844-09-2P
	872844-10-5P	872844-11-6P	872844-12-7P
	872844-14-9P	872844-16-1P	872844-17-2P
	872844-18-3P	872844-33-1P	872844-33-2P
	872844-34-3P	872844-37-6P	872844-40-1P
	872844-49-0P	872844-50-3P	872844-51-4P
	872844-52-5P	872844-54-7P	872844-55-8P
	872844-56-9P	872844-57-0P	872844-60-5P
	872844-61-6P	872844-62-7P	872844-81-0P
	872844-82-1P	872844-83-2P	872844-84-3P
	872844-87-6P	872844-94-5P	872844-95-6P
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	872845-03-9P	872845-04-0P	872845-05-1P
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	872845-13-1P	872845-14-2P	872845-17-5P
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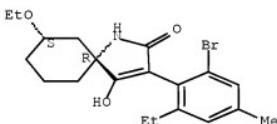
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872845-53-9P 872845-54-0P 872845-55-1P
872845-56-2P 872845-57-3P 872845-58-4P
872845-62-0P 872845-65-3P 872845-67-5P
872845-73-3P 872845-76-6P 872845-82-4P
872845-94-6P 872845-87-9P 872845-89-1P
872845-95-9P 872845-97-1P

RL: AGR (Agricultural use); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of 3-alkoxylspirotetramic acids and related compds. as pesticides)

RN 872844-07-0 CAPLUS

CN 1-Azaspido[4.5]dec-3-en-2-one, 3-(2-bromo-6-ethyl-4-methylphenyl)-7-ethoxy-4-hydroxy-, (5R,7S)-rel- (CA INDEX NAME)

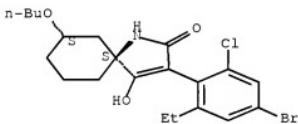
Relative stereochemistry.



RN 872844-08-1 CAPLUS

CN 1-Azaspido[4.5]dec-3-en-2-one, 3-(4-bromo-2-chloro-6-ethylphenyl)-7-butoxy-4-hydroxy-, (5R,7R)-rel- (CA INDEX NAME)

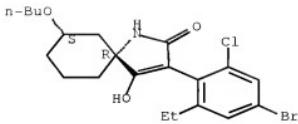
Relative stereochemistry.



RN 872844-09-2 CAPLUS

CN 1-Azaspido[4.5]dec-3-en-2-one, 3-(4-bromo-2-chloro-6-ethylphenyl)-7-butoxy-4-hydroxy-, (5R,7S)-rel- (CA INDEX NAME)

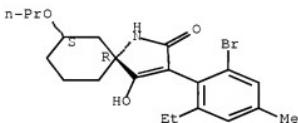
Relative stereochemistry.



RN 872844-10-5 CAPLUS

CN 1-Azaspiro[4.5]dec-3-en-2-one, 3-(2-bromo-6-ethyl-4-methylphenyl)-4-hydroxy-7-propoxy-, (5R,7S)-rel- (CA INDEX NAME)

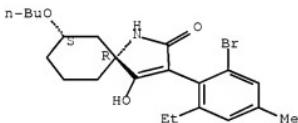
Relative stereochemistry.



RN 872844-11-6 CAPLUS

CN 1-Azaspiro[4.5]dec-3-en-2-one, 3-(2-bromo-6-ethyl-4-methylphenyl)-7-butoxy-4-hydroxy-, (5R,7S)-rel- (CA INDEX NAME)

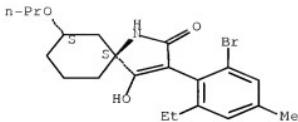
Relative stereochemistry.



RN 872844-12-7 CAPLUS

CN 1-Azaspiro[4.5]dec-3-en-2-one, 3-(2-bromo-6-ethyl-4-methylphenyl)-4-hydroxy-7-propoxy-, (5R,7R)-rel- (CA INDEX NAME)

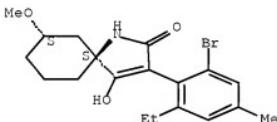
Relative stereochemistry.



RN 872844-14-9 CAPLUS

CN 1-Azaspiro[4.5]dec-3-en-2-one, 3-(2-bromo-6-ethyl-4-methylphenyl)-4-hydroxy-7-methoxy-, (5R,7R)-rel- (CA INDEX NAME)

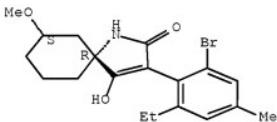
Relative stereochemistry.



RN 872844-16-1 CAPLUS

CN 1-Azaspiro[4.5]dec-3-en-2-one, 3-(2-bromo-6-ethyl-4-methylphenyl)-4-hydroxy-7-methoxy-, (5R,7S)-rel- (CA INDEX NAME)

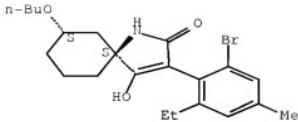
Relative stereochemistry.



RN 872844-17-2 CAPLUS

CN 1-Azaspiro[4.5]dec-3-en-2-one, 3-(2-bromo-6-ethyl-4-methylphenyl)-7-butoxy-4-hydroxy-, (5R,7R)-rel- (CA INDEX NAME)

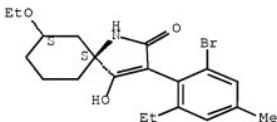
Relative stereochemistry.



RN 872844-18-3 CAPLUS

CN 1-Azaspiro[4.5]dec-3-en-2-one, 3-(2-bromo-6-ethyl-4-methylphenyl)-7-ethoxy-4-hydroxy-, (5R,7R)-rel- (CA INDEX NAME)

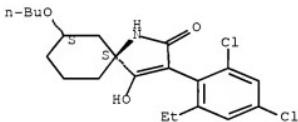
Relative stereochemistry.



RN 872844-32-1 CAPLUS

CN 1-Azaspiro[4.5]dec-3-en-2-one, 7-butoxy-3-(2,4-dichloro-6-ethylphenyl)-4-hydroxy-, (5R,7R)-rel- (CA INDEX NAME)

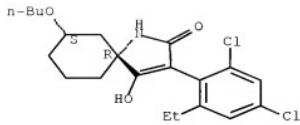
Relative stereochemistry.



RN 872844-33-2 CAPLUS

CN 1-Azaspiro[4.5]dec-3-en-2-one, 7-butoxy-3-(2,4-dichloro-6-ethylphenyl)-4-hydroxy-, (5R,7S)-rel- (CA INDEX NAME)

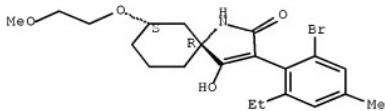
Relative stereochemistry.



RN 872844-34-3 CAPLUS

CN 1-Azaspido[4.5]dec-3-en-2-one, 3-(2-bromo-6-ethyl-4-methylphenyl)-4-hydroxy-7-(2-methoxyethoxy)-, (5R,7S)-rel- (CA INDEX NAME)

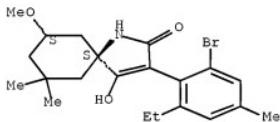
Relative stereochemistry.



RN 872844-37-6 CAPLUS

CN 1-Azaspido[4.5]dec-3-en-2-one, 3-(2-bromo-6-ethyl-4-methylphenyl)-4-hydroxy-9-methoxy-7,7-dimethyl-, (5R,9R)-rel- (CA INDEX NAME)

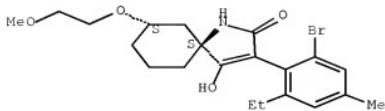
Relative stereochemistry.



RN 872844-40-1 CAPLUS

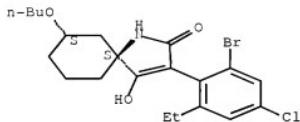
CN 1-Azaspido[4.5]dec-3-en-2-one, 3-(2-bromo-6-ethyl-4-methylphenyl)-4-hydroxy-7-(2-methoxyethoxy)-, (5R,7R)-rel- (CA INDEX NAME)

Relative stereochemistry.



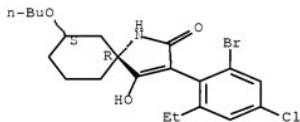
RN 872844-49-0 CAPLUS
CN 1-Azaspiro[4.5]dec-3-en-2-one, 3-(2-bromo-4-chloro-6-ethylphenyl)-7-butoxy-4-hydroxy-, (5R,7R)-rel- (CA INDEX NAME)

Relative stereochemistry.



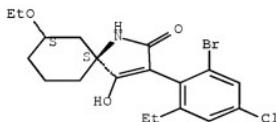
RN 872844-50-3 CAPLUS
CN 1-Azaspiro[4.5]dec-3-en-2-one, 3-(2-bromo-4-chloro-6-ethylphenyl)-7-butoxy-4-hydroxy-, (5R,7S)-rel- (CA INDEX NAME)

Relative stereochemistry.



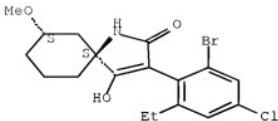
RN 872844-51-4 CAPLUS
CN 1-Azaspiro[4.5]dec-3-en-2-one, 3-(2-bromo-4-chloro-6-ethylphenyl)-7-ethoxy-4-hydroxy-, (5R,7R)-rel- (CA INDEX NAME)

Relative stereochemistry.



RN 872844-52-5 CAPLUS
CN 1-Azaspiro[4.5]dec-3-en-2-one, 3-(2-bromo-4-chloro-6-ethylphenyl)-4-hydroxy-7-methoxy-, (5R,7R)-rel- (CA INDEX NAME)

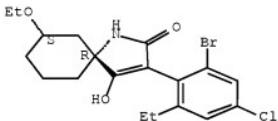
Relative stereochemistry.



RN 872844-54-7 CAPLUS

CN 1-Azaspiro[4.5]dec-3-en-2-one, 3-(2-bromo-4-chloro-6-ethylphenyl)-7-ethoxy-4-hydroxy-, (5R,7S)-rel- (CA INDEX NAME)

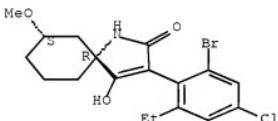
Relative stereochemistry.



RN 872844-55-8 CAPLUS

CN 1-Azaspiro[4.5]dec-3-en-2-one, 3-(2-bromo-4-chloro-6-ethylphenyl)-4-hydroxy-7-methoxy-, (5R,7S)-rel- (CA INDEX NAME)

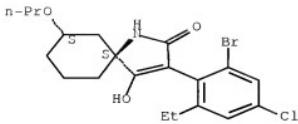
Relative stereochemistry.



RN 872844-56-9 CAPLUS

CN 1-Azaspiro[4.5]dec-3-en-2-one, 3-(2-bromo-4-chloro-6-ethylphenyl)-4-hydroxy-7-propoxy-, (5R,7R)-rel- (CA INDEX NAME)

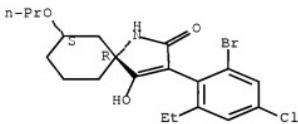
Relative stereochemistry.



RN 872844-57-0 CAPLUS

CN 1-Azaspiro[4.5]dec-3-en-2-one, 3-(2-bromo-4-chloro-6-ethylphenyl)-4-hydroxy-7-propoxy-, (5R,7S)-rel- (CA INDEX NAME)

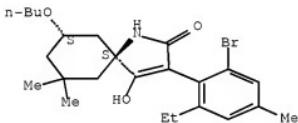
Relative stereochemistry.



RN 872844-60-5 CAPLUS

CN 1-Azaspiro[4.5]dec-3-en-2-one, 3-(2-bromo-6-ethyl-4-methylphenyl)-9-butoxy-4-hydroxy-7,7-dimethyl-, (5R,9R)-rel- (CA INDEX NAME)

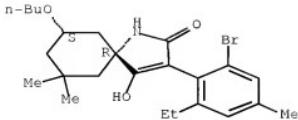
Relative stereochemistry.



RN 872844-61-6 CAPLUS

CN 1-Azaspiro[4.5]dec-3-en-2-one, 3-(2-bromo-6-ethyl-4-methylphenyl)-9-butoxy-4-hydroxy-7,7-dimethyl-, (5R,9S)-rel- (CA INDEX NAME)

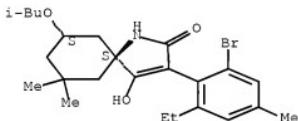
Relative stereochemistry.



RN 872844-62-7 CAPLUS

CN 1-Azaspiro[4.5]dec-3-en-2-one, 3-(2-bromo-6-ethyl-4-methylphenyl)-4-hydroxy-7,7-dimethyl-9-(2-methylpropoxy)-, (5R,9R)-rel- (CA INDEX NAME)

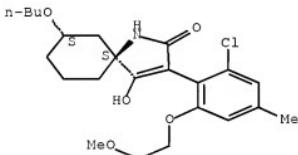
Relative stereochemistry.



RN 872844-81-0 CAPLUS

CN 1-Azaspiro[4.5]dec-3-en-2-one, 7-butoxy-3-[2-chloro-6-(2-methoxyethoxy)-4-methylphenyl]-4-hydroxy-, (5R,7R)-rel- (CA INDEX NAME)

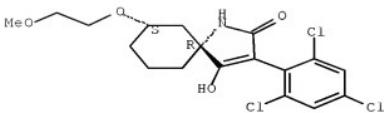
Relative stereochemistry.



RN 872844-82-1 CAPLUS

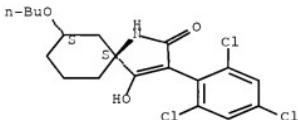
CN 1-Azaspiro[4.5]dec-3-en-2-one, 4-hydroxy-7-(2-methoxyethoxy)-3-(2,4,6-trichlorophenyl)-, (5R,7S)-rel- (CA INDEX NAME)

Relative stereochemistry.



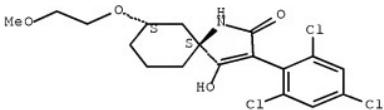
RN 872844-83-2 CAPLUS
 CN 1-Azaspiro[4.5]dec-3-en-2-one, 7-butoxy-4-hydroxy-3-(2,4,6-trichlorophenyl)-, (5R,7R)-rel- (CA INDEX NAME)

Relative stereochemistry.



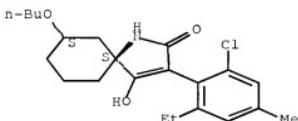
RN 872844-84-3 CAPLUS
 CN 1-Azaspiro[4.5]dec-3-en-2-one, 4-hydroxy-7-(2-methoxyethoxy)-3-(2,4,6-trichlorophenyl)-, (5R,7R)-rel- (CA INDEX NAME)

Relative stereochemistry.



RN 872844-87-6 CAPLUS
 CN 1-Azaspiro[4.5]dec-3-en-2-one, 7-butoxy-3-(2-chloro-6-ethyl-4-methylphenyl)-4-hydroxy-, (5R,7R)-rel- (CA INDEX NAME)

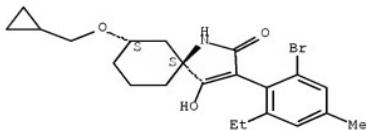
Relative stereochemistry.



RN 872844-94-5 CAPLUS

CN 1-Azaspiro[4.5]dec-3-en-2-one, 3-(2-bromo-6-ethyl-4-methylphenyl)-7-(cyclopropylmethoxy)-4-hydroxy-, (5R,7R)-rel- (CA INDEX NAME)

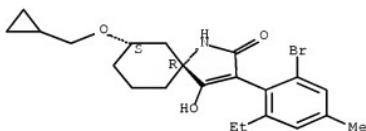
Relative stereochemistry.



RN 872844-95-6 CAPLUS

CN 1-Azaspiro[4.5]dec-3-en-2-one, 3-(2-bromo-6-ethyl-4-methylphenyl)-7-(cyclopropylmethoxy)-4-hydroxy-, (5R,7S)-rel- (CA INDEX NAME)

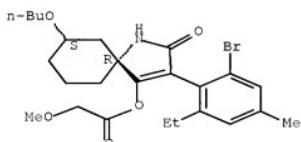
Relative stereochemistry.



RN 872844-97-8 CAPLUS

CN Acetic acid, 2-methoxy-, (5S,7R)-3-(2-bromo-6-ethyl-4-methylphenyl)-7-butoxy-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ester, rel- (CA INDEX NAME)

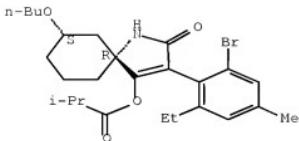
Relative stereochemistry.



RN 872844-98-9 CAPLUS

CN Propanoic acid, 2-methyl-, (5S,7R)-3-(2-bromo-6-ethyl-4-methylphenyl)-7-butoxy-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ester, rel- (CA INDEX NAME)

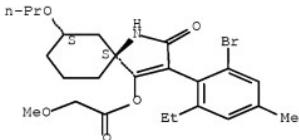
Relative stereochemistry.



RN 872844-99-0 CAPLUS

CN Acetic acid, 2-methoxy-, (5R,7R)-3-(2-bromo-6-ethyl-4-methylphenyl)-2-oxo-7-propoxy-1-azaspiro[4.5]dec-3-en-4-yl ester, rel- (CA INDEX NAME)

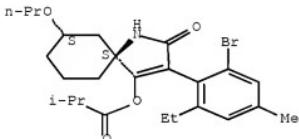
Relative stereochemistry.



RN 872845-00-6 CAPLUS

CN Propanoic acid, 2-methoxy-, (5R,7R)-3-(2-bromo-6-ethyl-4-methylphenyl)-2-oxo-7-propoxy-1-azaspiro[4.5]dec-3-en-4-yl ester, rel- (CA INDEX NAME)

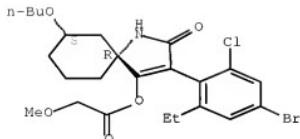
Relative stereochemistry.



RN 872845-01-7 CAPLUS

CN Acetic acid, 2-methoxy-, (5S,7R)-3-(4-bromo-2-chloro-6-ethylphenyl)-7-butoxy-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ester, rel- (CA INDEX NAME)

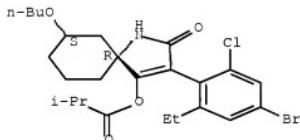
Relative stereochemistry.



RN 872845-02-8 CAPLUS

CN Propanoic acid, 2-methyl-, (5S,7R)-3-(4-bromo-2-chloro-6-ethylphenyl)-7-butoxy-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ester, rel- (CA INDEX NAME)

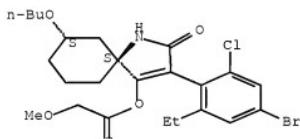
Relative stereochemistry.



RN 872845-03-9 CAPLUS

CN Acetic acid, 2-methoxy-, (5R,7R)-3-(4-bromo-2-chloro-6-ethylphenyl)-7-butoxy-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ester, rel- (CA INDEX NAME)

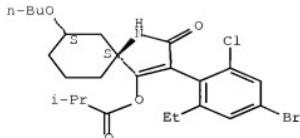
Relative stereochemistry.



RN 872845-04-0 CAPLUS

CN Propanoic acid, 2-methyl-, (5R,7R)-3-(4-bromo-2-chloro-6-ethylphenyl)-7-butoxy-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ester, rel- (CA INDEX NAME)

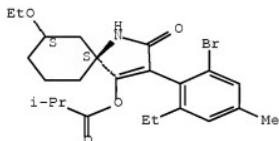
Relative stereochemistry.



RN 872845-05-1 CAPLUS

CN Propanoic acid, 2-methyl-, (5R,7R)-3-(2-bromo-6-ethyl-4-methylphenyl)-7-ethoxy-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ester, rel- (CA INDEX NAME)

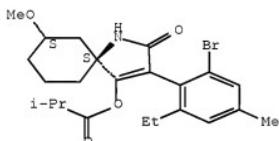
Relative stereochemistry.



RN 872845-06-2 CAPLUS

CN Propanoic acid, 2-methyl-, (5R,7R)-3-(2-bromo-6-ethyl-4-methylphenyl)-7-methoxy-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ester, rel- (CA INDEX NAME)

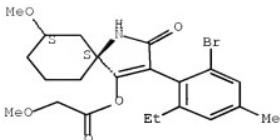
Relative stereochemistry.



RN 872845-07-3 CAPLUS

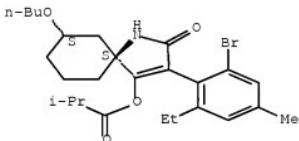
CN Acetic acid, 2-methoxy-, (5R,7R)-3-(2-bromo-6-ethyl-4-methylphenyl)-7-methoxy-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ester, rel- (CA INDEX NAME)

Relative stereochemistry.



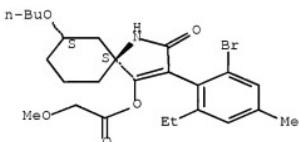
RN 872845-08-4 CAPLUS
 CN Propanoic acid, 2-methyl-, (5R,7R)-3-(2-bromo-6-ethyl-4-methylphenyl)-7-butoxy-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ester, rel- (CA INDEX NAME)

Relative stereochemistry.



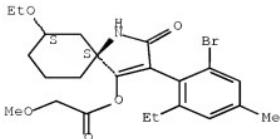
RN 872845-09-5 CAPLUS
 CN Acetic acid, 2-methoxy-, (5R,7R)-3-(2-bromo-6-ethyl-4-methylphenyl)-7-butoxy-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ester, rel- (CA INDEX NAME)

Relative stereochemistry.



RN 872845-10-8 CAPLUS
 CN Acetic acid, 2-methoxy-, (5R,7R)-3-(2-bromo-6-ethyl-4-methylphenyl)-7-ethoxy-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ester, rel- (CA INDEX NAME)

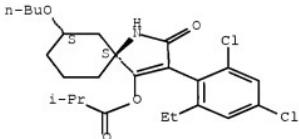
Relative stereochemistry.



RN 872845-12-0 CAPLUS

CN Propanoic acid, 2-methyl-, (5R,7R)-7-butoxy-3-(2,4-dichloro-6-ethylphenyl)-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ester, rel- (CA INDEX NAME)

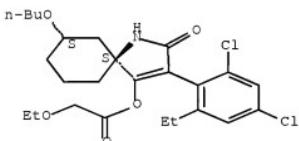
Relative stereochemistry.



RN 872845-13-1 CAPLUS

CN Acetic acid, 2-ethoxy-, (5R,7R)-7-butoxy-3-(2,4-dichloro-6-ethylphenyl)-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ester, rel- (CA INDEX NAME)

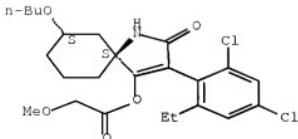
Relative stereochemistry.



RN 872845-14-2 CAPLUS

CN Acetic acid, 2-methoxy-, (5R,7R)-7-butoxy-3-(2,4-dichloro-6-ethylphenyl)-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ester, rel- (CA INDEX NAME)

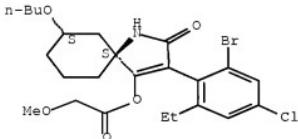
Relative stereochemistry.



RN 872845-17-5 CAPLUS

CN Acetic acid, 2-methoxy-, (5R,7R)-3-(2-bromo-4-chloro-6-ethylphenyl)-7-butoxy-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ester, rel- (CA INDEX NAME)

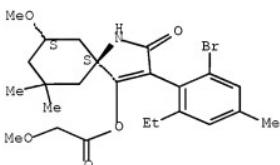
Relative stereochemistry.



RN 872845-18-6 CAPLUS

CN Acetic acid, 2-methoxy-, (5R,9R)-3-(2-bromo-6-ethyl-4-methylphenyl)-9-methoxy-7,7-dimethyl-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ester, rel- (CA INDEX NAME)

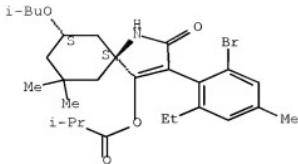
Relative stereochemistry.



RN 872845-23-3 CAPLUS

CN Propanoic acid, 2-methyl-, (5R,9R)-3-(2-bromo-6-ethyl-4-methylphenyl)-7,7-dimethyl-9-(2-methylpropoxy)-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ester, rel- (CA INDEX NAME)

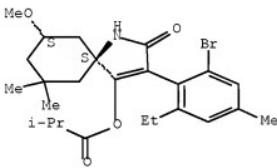
Relative stereochemistry.



RN 872845-24-4 CAPLUS

CN Propanoic acid, 2-methyl-, (5R,9R)-3-(2-bromo-6-ethyl-4-methylphenyl)-9-methoxy-7,7-dimethyl-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ester, rel- (CA INDEX NAME)

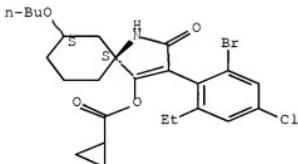
Relative stereochemistry.



RN 872845-25-5 CAPLUS

CN Cyclopropanecarboxylic acid, (5R,7R)-3-(2-bromo-4-chloro-6-ethylphenyl)-7-butoxy-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ester, rel- (CA INDEX NAME)

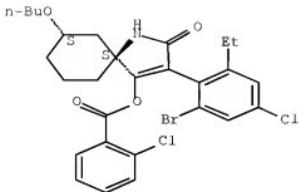
Relative stereochemistry.



RN 872845-27-7 CAPLUS

CN Benzoic acid, 2-chloro-, (5R,7R)-3-(2-bromo-4-chloro-6-ethylphenyl)-7-butoxy-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ester, rel- (CA INDEX NAME)

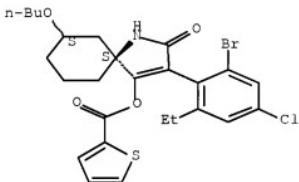
Relative stereochemistry.



RN 872845-38-0 CAPLUS

CN 2-Thiophenecarboxylic acid, (5R,7R)-3-(2-bromo-4-chloro-6-ethylphenyl)-7-n-butoxy-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ester, rel- (CA INDEX NAME)

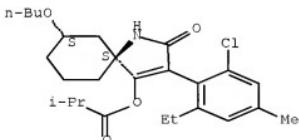
Relative stereochemistry.



RN 872845-46-0 CAPLUS

CN Propanoic acid, 2-methyl-, (5R,7R)-7-butoxy-3-(2-chloro-6-ethyl-4-methylphenyl)-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ester, rel- (CA INDEX NAME)

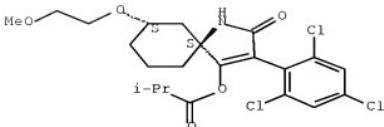
Relative stereochemistry.



RN 872845-47-1 CAPLUS

CN Propanoic acid, 2-methoxyethoxy-, (5R,7R)-7-(2-methoxyethoxy)-2-oxo-3-(2,4,6-trichlorophenyl)-1-azaspiro[4.5]dec-3-en-4-yl ester, rel- (CA INDEX NAME)

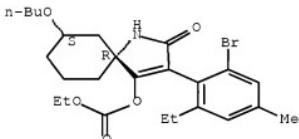
Relative stereochemistry.



RN 872845-52-8 CAPLUS

CN Carbonic acid, (5R,7S)-3-(2-bromo-6-ethyl-4-methylphenyl)-7-butoxy-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ethyl ester, rel- (9CI) (CA INDEX NAME)

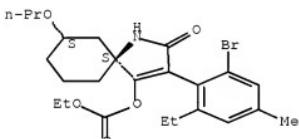
Relative stereochemistry.



RN 872845-53-9 CAPLUS

CN Carbonic acid, (5R,7R)-3-(2-bromo-6-ethyl-4-methylphenyl)-2-oxo-7-propoxy-1-azaspiro[4.5]dec-3-en-4-yl ethyl ester, rel- (CA INDEX NAME)

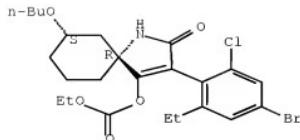
Relative stereochemistry.



RN 872845-54-0 CAPLUS

CN Carbonic acid, (5R,7S)-3-(4-bromo-2-chloro-6-ethylphenyl)-7-butoxy-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ethyl ester, rel- (9CI) (CA INDEX NAME)

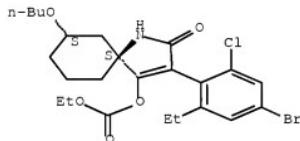
Relative stereochemistry.



RN 872845-55-1 CAPLUS

CN Carbonic acid, (5R,7R)-3-(4-bromo-2-chloro-6-ethylphenyl)-7-butoxy-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ethyl ester, rel- (CA INDEX NAME)

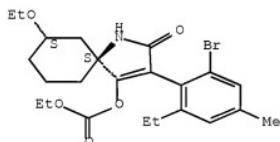
Relative stereochemistry.



RN 872845-56-2 CAPLUS

CN Carbonic acid, (5R,7R)-3-(2-bromo-6-ethyl-4-methylphenyl)-7-ethoxy-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ethyl ester, rel- (CA INDEX NAME)

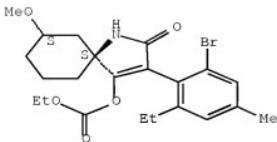
Relative stereochemistry.



RN 872845-57-3 CAPLUS

CN Carbonic acid, (5R,7R)-3-(2-bromo-6-ethyl-4-methylphenyl)-7-methoxy-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ethyl ester, rel- (CA INDEX NAME)

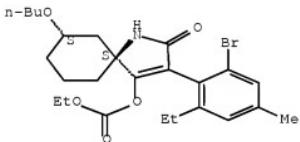
Relative stereochemistry.



RN 872845-58-4 CAPLUS

CN Carbonic acid, (5R,7R)-3-(2-bromo-6-ethyl-4-methylphenyl)-7-butoxy-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ethyl ester, rel- (CA INDEX NAME)

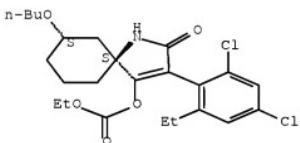
Relative stereochemistry.



RN 872845-62-0 CAPLUS

CN Carbonic acid, (5R,7R)-7-butoxy-3-(2,4-dichloro-6-ethylphenyl)-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ethyl ester, rel- (CA INDEX NAME)

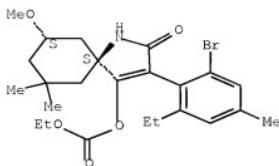
Relative stereochemistry.



RN 872845-65-3 CAPLUS

CN Carbonic acid, (5R,9R)-3-(2-bromo-6-ethyl-4-methylphenyl)-9-methoxy-7,7-dimethyl-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ethyl ester, rel- (CA INDEX NAME)

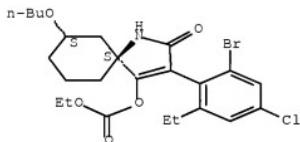
Relative stereochemistry.



RN 872845-67-5 CAPLUS

CN Carbonic acid, (5R,7R)-3-(2-bromo-4-chloro-6-ethylphenyl)-7-butoxy-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ethyl ester, rel- (CA INDEX NAME)

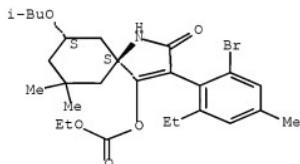
Relative stereochemistry.



RN 872845-73-3 CAPLUS

CN Carbonic acid, (5R,9R)-3-(2-bromo-6-ethyl-4-methylphenyl)-7,7-dimethyl-9-(2-methylpropoxy)-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ethyl ester, rel- (CA INDEX NAME)

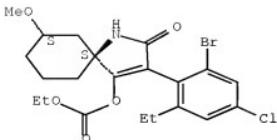
Relative stereochemistry.



RN 872845-76-6 CAPLUS

CN Carbonic acid, (5R,7R)-3-(2-bromo-4-chloro-6-ethylphenyl)-7-methoxy-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ethyl ester, rel- (CA INDEX NAME)

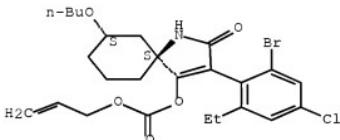
Relative stereochemistry.



RN 872845-82-4 CAPLUS

CN Carbonic acid, (5R,7R)-3-(2-bromo-4-chloro-6-ethylphenyl)-7-butoxy-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl 2-propen-1-yl ester, rel- (CA INDEX NAME)

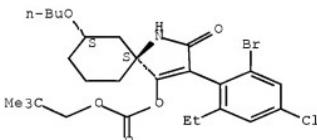
Relative stereochemistry.



RN 872845-84-6 CAPLUS

CN Carbonic acid, (5R,7R)-3-(2-bromo-4-chloro-6-ethylphenyl)-7-butoxy-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl 2,2-dimethylpropyl ester, rel- (CA INDEX NAME)

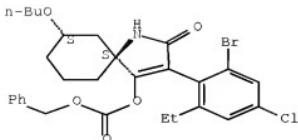
Relative stereochemistry.



RN 872845-87-9 CAPLUS

CN Carbonic acid, (5R,7R)-3-(2-bromo-4-chloro-6-ethylphenyl)-7-butoxy-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl phenylmethyl ester, rel- (CA INDEX NAME)

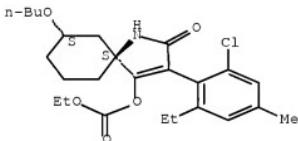
Relative stereochemistry.



RN 872845-89-1 CAPLUS

CN Carbonic acid, (5R,7R)-7-butoxy-3-(2-chloro-6-ethyl-4-methylphenyl)-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ethyl ester, rel- (CA INDEX NAME)

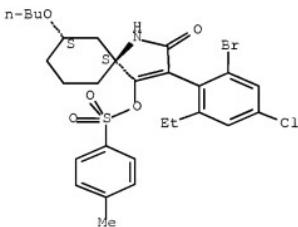
Relative stereochemistry.



RN 872845-95-9 CAPLUS

CN 1-Azaspiro[4.5]dec-3-en-2-one, 3-(2-bromo-4-chloro-6-ethylphenyl)-7-butoxy-4-[(4-methylphenyl)sulfonyloxy]-, (5R,7R)-rel- (CA INDEX NAME)

Relative stereochemistry.

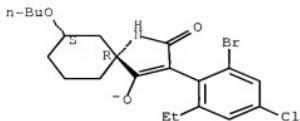


RN 872845-97-1 CAPLUS

CN 1-Butanaminium, N,N,N-tributyl-, salt with
3-(2-bromo-4-chloro-6-ethylphenyl)-7-butoxy-4-hydroxy-1-azaspiro[4.5]dec-3-en-2-one (1:1) (CA INDEX NAME)

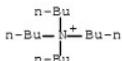
CRN 872845-96-0
CMF C21 H26 Br Cl N O3

Relative stereochemistry.



CM 2

CRN 10549-76-5
CMF C16 H36 N

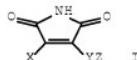


REFERENCE COUNT: 8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

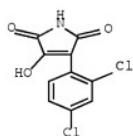
L3 ANSWER 18 OF 53 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 2005:1220648 CAPLUS [Full-text](#)
DOCUMENT NUMBER: 143:454391
TITLE: Preparation of maleimide derivatives as plant growth regulators
INVENTOR(S): Bastiaans, Henricus M. M.; Donn, Guenter; Knittel, Nathalie; Martelletti, Arianna; Rees, Richard; Schwall, Michael; Whitford, Ryan
PATENT ASSIGNEE(S): Bayer CropScience G.m.b.H., Germany
SOURCE: PCT Int. Appl., 65 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005107465	A1	20051117	WO 2005-EP4688	20050430
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL,				

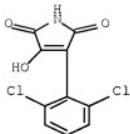
SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA,
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 RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML,
 MR, NE, SN, TD, TG
 AU 2005239812 A1 20051117 AU 2005-239812 20050430
 CA 2566392 A1 20051117 CA 2005-2566392 20050430
 EP 1746886 A1 20070131 EP 2005-736201 20050430
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 IS, IT, LI, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR
 CN 1949967 A 20070418 CN 2005-80015001 20050430
 BR 2005010954 A 20071120 BR 2005-10954 20050430
 IN 2006CN04132 A 20070615 IN 2006-CN4132 20061110
 PRIORITY APPLN. INFO.: EP 2004-11255 A 20040512
 WO 2005-EP4688 W 20050430
 OTHER SOURCE(S): CASREACT 143:454391; MARPAT 143:454391
 GI



AB The 3,4-disubstituted maleimide derivs. I or salts thereof, wherein: X is aryl or heteroaryl which groups are unsubstituted or substituted; Y is NH or a covalent bond; and Z is aryl or heteroaryl which groups are unsubstituted or substituted, are prepared as plant growth regulators.
 IT 1053183-33-7
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (maleimide derivs. as plant growth regulators for)
 RN 1053183-33-7 CAPLUS
 CN 1H-Pyrrole-2,5-dione, 3-(2,4-dichlorophenyl)-4-hydroxy- (CA INDEX NAME)



IT 669110-77-0
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (reactant in preparation of maleimide derivative plant growth regulator)
 RN 869110-77-0 CAPLUS
 CN 1H-Pyrrole-2,5-dione, 3-(2,4-dichlorophenyl)-4-hydroxy- (CA INDEX NAME)



REFERENCE COUNT: 8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 19 OF 53 CAPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 2005:1067392 CAPLUS [Full-text](#)
 DOCUMENT NUMBER: 143:367201
 TITLE: Preparation of of spirocyclic phenylpyrrolidinediones and related compounds as herbicides
 INVENTOR(S): Fischer, Reiner; Bretschneider, Thomas; Kunz, Klaus; Lehr, Stefan; Feucht, Dieter; Loesel, Peter; Malsam, Olga; Bojack, Guido; Arnold, Christian; Auler, Thomas; Hills, Martin; Kehne, Heinz
 PATENT ASSIGNEE(S): Bayer Cropscience A.-G., Germany
 SOURCE: Ger. Offen., 130 pp.
 CODEN: GWXXBX
 DOCUMENT TYPE: Patent
 LANGUAGE: German
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

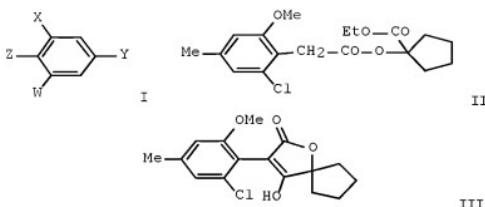
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 102004014620	A1	20051006	DE 2004-102004014620	20040325
AU 2005225508	A1	20051006	AU 2005-225508	20050311
CA 2561076	A1	20051006	CA 2005-2561076	20050311
WO 2005092897	A2	20051006	WO 2005-EP2605	20050311
WO 2005092897	A3	20070215		
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RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
EP 1732930	A2	20061220	EP 2005-728341	20050311
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CN 1980936	A	20070613	CN 2005-80016097	20050311
BR 2005007876	A	20070724	BR 2005-7876	20050311
JP 2007530472	T	20071101	JP 2007-504296	20050311
IN 2006DN05320	A	20070803	IN 2006-DN5320	20060914

MX 2006PA10781
KR 2007020446
US 20070298968
PRIORITY APPLN. INFO.

MABRAT 142-367201

MX 2006-PA10781 20060920
KR 2006-721888 20061020
US 2007-594251 20070910
DE 2004-102004014620A 20040325
WO 2005-FP2605 W 20050311

OTHER SOURCE(S) :
GT



AB Title compds. I [X = halo; Y = alkyl; Z = (un)substituted pyrrolin-2-ones, isocrotonolactones, 2(5H)-thiophenones, etc.] were prepared. For example, intramolal Claisen condensation of Et ester II, afforded isocrotonolactone III in 77% yield. In a *Myzus persicae* protection assays, at 500 g/ha exhibited 100% protection after 5 days. Compds. I are claimed to be useful as herbicides.

IT 866386-15-4P 866386-16-5P 866386-17-6P
866386-18-7P 866386-19-8P 866386-20-1P
866386-21-2P 866386-22-3P

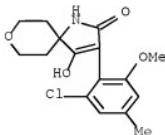
RL: AGR (Agricultural use); RCT (Reactant); SPN (Synthetic preparation);
BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent)

USES (Uses)

(preparation of spirocyclic phenylpyrrolidinediones and related compds as herbicides)

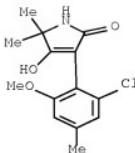
RN 866386-15-4 CAPLUS

CN 8-Oxa-1-azaspiro[4.5]dec-3-en-2-one,
3-(2-chloro-6-methoxy-4-methylphenyl)-4-hydroxy- (CA INDEX NAME)



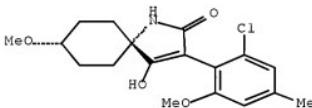
BN 866386-16-5 CAPLUS

CN 2H-Pyrrol-2-one, 3-(2-chloro-6-methoxy-4-methylphenyl)-1,5-dihydro-4-hydroxy-5,5-dimethyl- (CA INDEX NAME)



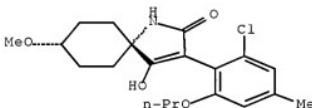
RN 866386-17-6 CAPLUS
 CN 1-Azaspiro[4.5]dec-3-en-2-one, 3-(2-chloro-6-methoxy-4-methylphenyl)-4-hydroxy-8-methoxy-, (5a,8a)- (CA INDEX NAME)

Relative stereochemistry.



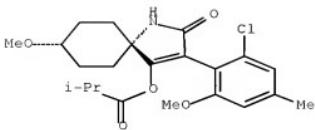
RN 866386-18-7 CAPLUS
 CN 1-Azaspiro[4.5]dec-3-en-2-one, 3-(2-chloro-4-methyl-6-propoxypyhenyl)-4-hydroxy-8-methoxy-, (5a,8a)- (CA INDEX NAME)

Relative stereochemistry.



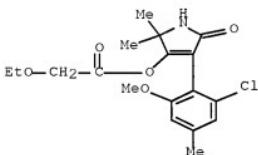
RN 866386-19-8 CAPLUS
 CN Propanoic acid, 2-methyl-, (5a,8a)-3-(2-chloro-6-methoxy-4-methylphenyl)-8-methoxy-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ester (CA INDEX NAME)

Relative stereochemistry.



RN 866386-20-1 CAPLUS

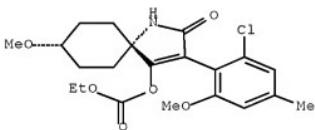
CN Acetic acid, 2-ethoxy-, 4-(2-chloro-6-methoxy-4-methylphenyl)-2,5-dihydro-2,2-dimethyl-5-oxo-1H-pyrrol-3-yl ester (CA INDEX NAME)



RN 866386-21-2 CAPLUS

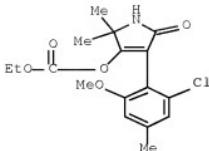
CN Carbonic acid, cis-3-(2-chloro-6-methoxy-4-methylphenyl)-8-methoxy-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ethyl ester (9CI) (CA INDEX NAME)

Relative stereochemistry.



RN 866386-22-3 CAPLUS

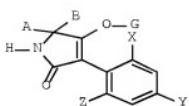
CN Carbonic acid, 4-(2-chloro-6-methoxy-4-methylphenyl)-2,5-dihydro-2,2-dimethyl-5-oxo-1H-pyrrol-3-yl ethyl ester (CA INDEX NAME)



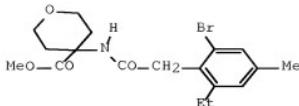
L3 ANSWER 20 OF 53 CAPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 2005:429395 CAPLUS [Full-text](#)
 DOCUMENT NUMBER: 142:481941
 TITLE: Preparation of spirocyclic phenylpyrrolidinediones as herbicides
 INVENTOR(S): Lehr, Stefan; Drewes, Mark Wilhelm; Feucht, Dieter; Loesel, Peter; Malsam, Olga; Bojack, Guido; Arnold, Christian; Auler, Thomas; Hills, Martin Jeffrey; Kehne, Heinz; Rosinger, Christopher Hugh
 PATENT ASSIGNEE(S): Bayer Cropscience Aktiengesellschaft, Germany; Fischer, Reiner
 SOURCE: PCT Int. Appl., 151 pp.
 DOCUMENT TYPE: Patent
 LANGUAGE: German
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005044796	A1	20050519	WO 2004-EP12443	20041104
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, US, UZ, VC, VN, YU, ZA, ZM, ZW				
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EP 1697321	A1	20060906	EP 2004-797575	20041104
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CN 1874997	A	20061206	CN 2004-80032653	20041104
BR 2004016267	A	20070109	BR 2004-16267	20041104
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US 20070129252	A1	20070607	US 2006-578403	20061113
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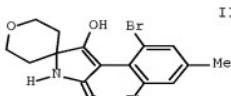
OTHER SOURCE(S): MARPAT 142:481941
 GI



I



II



III

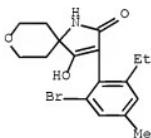
AB Title compds. I [X = halo; Y = alkyl; Z = alkyl; A and B together with a heteroatom form a ring (sic); G = H, COR1, SO2R3; R1 = alkyl, alkenyl, alkoxy alkyl, etc.; R3 = halo substituted alkyl, alkoxy, alkylamino, etc.] were prepared. For example, intramol. Claisen condensation of Me ester II, afforded pyrrolidinedione III in 92% yield. In a *Myzus persicae* protection assay, at 100 ppm pyrrolidinedione III exhibited 75% protection after 6 days. Compds. I are claimed to be useful as herbicides.

IT 652058-96-9P 852058-98-1P

RL: AGR (Agricultural use); BSU (Biological study, unclassified); RCT (Reactant); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)
(preparation of spirocyclic phenylpyrrolidinediones as herbicides)

RN 852058-96-9 CAPLUS

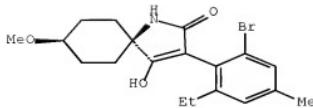
CN 8-Oxa-1-azaspiro[4.5]dec-3-en-2-one,
3-(2-bromo-6-ethyl-4-methylphenyl)-4-hydroxy- (CA INDEX NAME)



RN 852058-98-1 CAPLUS

CN 1-Azaspiro[4.5]dec-3-en-2-one, 3-(2-bromo-6-ethyl-4-methylphenyl)-4-hydroxy-8-methoxy-, (5a,8a)- (CA INDEX NAME)

Relative stereochemistry.



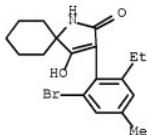
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 852059-07-5P 852059-08-6P 852059-09-7P
 852059-10-0P 852059-11-1P 852059-12-2P
 852059-13-3P 852059-14-4P 852059-15-5P
 852059-16-6P 852059-17-7P

RL: AGR (Agricultural use); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of spirocyclic phenylpyrrolidinediones as herbicides)

RN 852058-97-0 CAPLUS

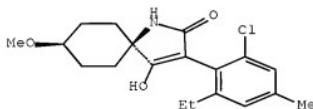
CN 1-Azaspiro[4.5]dec-3-en-2-one, 3-(2-bromo-6-ethyl-4-methylphenyl)-4-hydroxy- (CA INDEX NAME)



RN 852058-99-2 CAPLUS

CN 1-Azaspiro[4.5]dec-3-en-2-one, 3-(2-chloro-6-ethyl-4-methylphenyl)-4-hydroxy-8-methoxy-, (5a,8a)- (CA INDEX NAME)

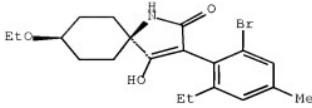
Relative stereochemistry.



RN 852059-00-8 CAPLUS

CN 1-Azaspiro[4.5]dec-3-en-2-one, 3-(2-bromo-6-ethyl-4-methylphenyl)-8-ethoxy-4-hydroxy-, (5a,8a)- (CA INDEX NAME)

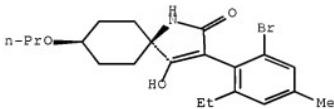
Relative stereochemistry.



RN 852059-01-9 CAPLUS

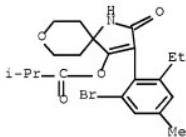
CN 1-Azaspiro[4.5]dec-3-en-2-one, 3-(2-bromo-6-ethyl-4-methylphenyl)-4-hydroxy-8-propoxy-, (5a,8a)- (CA INDEX NAME)

Relative stereochemistry.



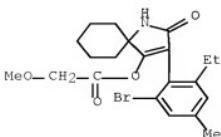
RN 852059-02-0 CAPLUS

CN Propanoic acid, 2-methyl-, 3-(2-bromo-6-ethyl-4-methylphenyl)-2-oxo-8-oxa-1-azaspiro[4.5]dec-3-en-4-yl ester (CA INDEX NAME)

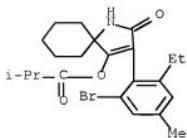


RN 852059-03-1 CAPLUS

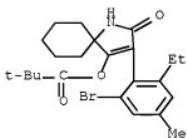
CN Acetic acid, 2-methoxy-, 3-(2-bromo-6-ethyl-4-methylphenyl)-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ester (CA INDEX NAME)



RN 852059-04-2 CAPLUS
CN Propanoic acid, 2-methyl-, 3-(2-bromo-6-ethyl-4-methylphenyl)-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ester (CA INDEX NAME)

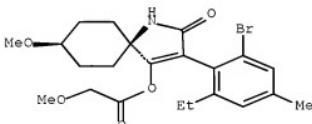


RN 852059-05-3 CAPLUS
CN Propanoic acid, 2,2-dimethyl-, 3-(2-bromo-6-ethyl-4-methylphenyl)-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ester (CA INDEX NAME)

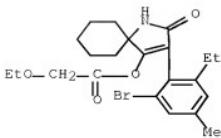


RN 852059-06-4 CAPLUS
CN Acetic acid, 2-methoxy-, (5 α ,8 α)-3-(2-bromo-6-ethyl-4-methylphenyl)-8-methoxy-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ester (CA INDEX NAME)

Relative stereochemistry.



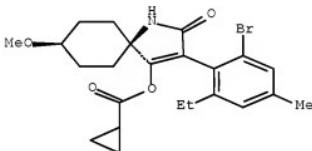
RN 852059-07-5 CAPLUS
CN Acetic acid, 2-ethoxy-, 3-(2-bromo-6-ethyl-4-methylphenyl)-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ester (CA INDEX NAME)



RN 852059-08-6 CAPLUS

CN Cyclopropanecarboxylic acid, (5a,8a)-3-(2-bromo-6-ethyl-4-methylphenyl)-8-methoxy-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ester (CA INDEX NAME)

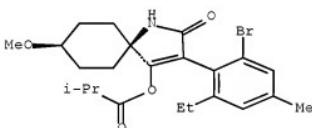
Relative stereochemistry.



RN 852059-09-7 CAPLUS

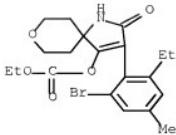
CN Propanoic acid, 2-methyl-, (5a,8a)-3-(2-bromo-6-ethyl-4-methylphenyl)-8-methoxy-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ester (CA INDEX NAME)

Relative stereochemistry.



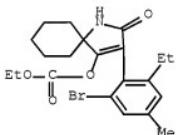
RN 852059-10-0 CAPLUS

CN Carbonic acid, 3-(2-bromo-6-ethyl-4-methylphenyl)-2-oxo-8-oxa-1-azaspiro[4.5]dec-3-en-4-yl ethyl ester (CA INDEX NAME)



RN 852059-11-1 CAPLUS

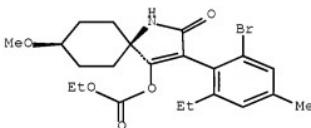
CN Carbonic acid, 3-(2-bromo-6-ethyl-4-methylphenyl)-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ethyl ester (CA INDEX NAME)



RN 852059-12-2 CAPLUS

CN Carbonic acid, cis-3-(2-bromo-6-ethyl-4-methylphenyl)-8-methoxy-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ethyl ester (9CI) (CA INDEX NAME)

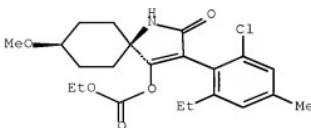
Relative stereochemistry.



RN 852059-13-3 CAPLUS

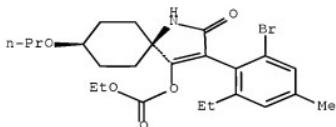
CN Carbonic acid, cis-3-(2-chloro-6-ethyl-4-methylphenyl)-8-methoxy-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ethyl ester (9CI) (CA INDEX NAME)

Relative stereochemistry.



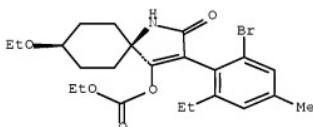
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CN Carbonic acid, cis-3-(2-bromo-6-ethyl-4-methylphenyl)-2-oxo-8-propoxy-1-azaspiro[4.5]dec-3-en-4-yl ethyl ester (9CI) (CA INDEX NAME)

Relative stereochemistry.



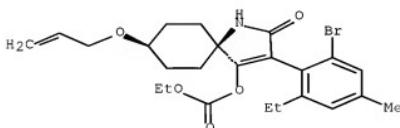
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CN Carbonic acid, cis-3-(2-bromo-6-ethyl-4-methylphenyl)-8-ethoxy-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ethyl ester (9CI) (CA INDEX NAME)

Relative stereochemistry.



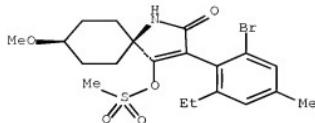
RN 852059-16-6 CAPLUS
CN Carbonic acid, cis-3-(2-bromo-6-ethyl-4-methylphenyl)-2-oxo-8-(2-propenoxy)-1-azaspiro[4.5]dec-3-en-4-yl ethyl ester (9CI) (CA INDEX NAME)

Relative stereochemistry.



RN 852059-17-7 CAPLUS
CN 1-Azaspiro[4.5]dec-3-en-2-one, 3-(2-bromo-6-ethyl-4-methylphenyl)-8-methoxy-4-[(methylsulfonyl)oxy]-, (5a,8a)- (CA INDEX NAME)

Relative stereochemistry.



REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 21 OF 53 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 2005:429392 CAPLUS Full-text
DOCUMENT NUMBER: 142:481940
TITLE: Preparation of 3-phenyl-2,4-pyrrolidinediones as herbicides
INVENTOR(S): Fischer, Reiner; Lehr, Stefan; Feucht, Dieter; Loesel, Peter; Malsam, Olga; Bojack, Guido; Auler, Thomas; Hills, Martin Jeffrey; Kehne, Heinz; Rosinger, Christopher Hugh
PATENT ASSIGNEE(S): Bayer Cropscience Aktiengesellschaft, Germany
SOURCE: PCT Int. Appl., 153 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005044791	A2	20050519	WO 2004-EP12444	20041104
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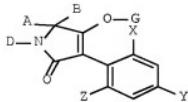
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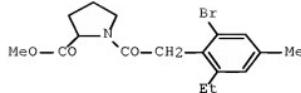
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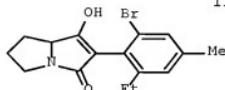
A 20031105
W 20041104



I



II



III

AB Title compds. I [X = halo; Y = alkyl; Z = alkyl; G = H; A = H, alkyl, haloalkyl, etc.; B = H, alkyl, alkoxyalkyl; D = H, alkyl, alkenyl, etc.] were prepared. For example, intramol. Claisen condensation of Me ester II, afforded pyrrolidinediones III in 92% yield. In a meloidogyne protection assay, at 20 ppm pyrrolidinedione III exhibited 80% protection after 14 days. Compds. I are claimed to be useful as herbicides.

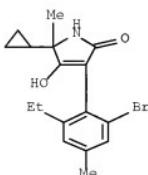
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RL: AGR (Agricultural use); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)

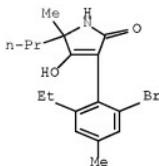
(preparation of phenylpyrrolidinediones as herbicides)

RN 852069-20-6 CAPLUS

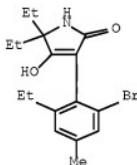
CN 2H-Pyrrol-2-one, 3-(2-bromo-6-ethyl-4-methylphenyl)-5-cyclopropyl-1,5-dihydro-4-hydroxy-5-methyl- (CA INDEX NAME)



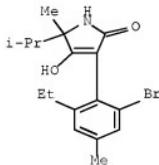
RN 852069-21-7 CAPLUS
CN 2H-Pyrrol-2-one, 3-(2-bromo-6-ethyl-4-methylphenyl)-1,5-dihydro-4-hydroxy-5-methyl-5-propyl- (CA INDEX NAME)



RN 852069-26-2 CAPLUS
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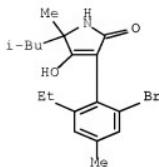


RN 852069-27-3 CAPLUS
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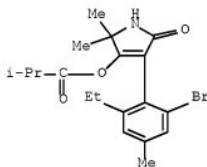
RN 852069-28-4 CAPLUS
CN 2H-Pyrrol-2-one, 3-(2-bromo-6-ethyl-4-methylphenyl)-1,5-dihydro-4-hydroxy-

5-methyl-5-(2-methylpropyl)- (CA INDEX NAME)



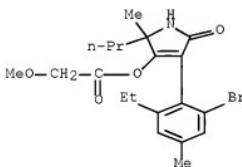
RN 852069-30-8 CAPLUS

CN Propanoic acid, 2-methyl-, 4-(2-bromo-6-ethyl-4-methylphenyl)-2,5-dihydro-2,2-dimethyl-5-oxo-1H-pyrrol-3-yl ester (CA INDEX NAME)



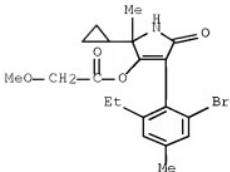
RN 852069-34-2 CAPLUS

CN Acetic acid, 2-methoxy-, 4-(2-bromo-6-ethyl-4-methylphenyl)-2,5-dihydro-2-methyl-5-oxo-2-propyl-1H-pyrrol-3-yl ester (CA INDEX NAME)



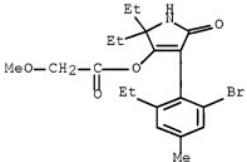
RN 852069-35-3 CAPLUS

CN Acetic acid, 2-methoxy-, 4-(2-bromo-6-ethyl-4-methylphenyl)-2-cyclopropyl-2,5-dihydro-2-methyl-5-oxo-1H-pyrrol-3-yl ester (CA INDEX NAME)



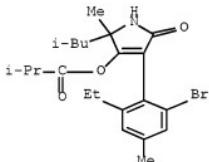
RN 852069-36-4 CAPLUS

CN Acetic acid, 2-methoxy-, 4-(2-bromo-6-ethyl-4-methylphenyl)-2,2-diethyl-2,5-dihydro-5-oxo-1H-pyrrol-3-yl ester (CA INDEX NAME)



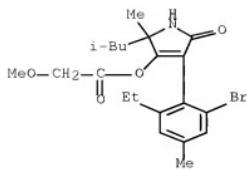
RN 852069-37-5 CAPLUS

CN Propanoic acid, 2-methyl-, 4-(2-bromo-6-ethyl-4-methylphenyl)-2,5-dihydro-2-methyl-2-(2-methylpropyl)-5-oxo-1H-pyrrol-3-yl ester (CA INDEX NAME)



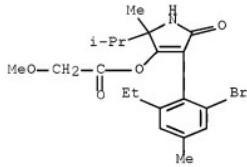
RN 852069-38-6 CAPLUS

CN Acetic acid, 2-methoxy-, 4-(2-bromo-6-ethyl-4-methylphenyl)-2,5-dihydro-2-methyl-2-(2-methylpropyl)-5-oxo-1H-pyrrol-3-yl ester (CA INDEX NAME)



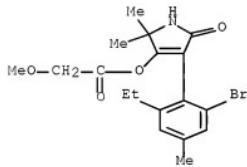
RN 852069-39-7 CAPLUS

CN Acetic acid, 2-methoxy-, 4-(2-bromo-6-ethyl-4-methylphenyl)-2,5-dihydro-2-methyl-2-(1-methylethyl)-5-oxo-1H-pyrrol-3-yl ester (CA INDEX NAME)



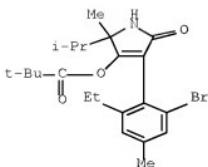
RN 852069-40-0 CAPLUS

CN Acetic acid, 2-methoxy-, 4-(2-bromo-6-ethyl-4-methylphenyl)-2,5-dihydro-2,2-dimethyl-5-oxo-1H-pyrrol-3-yl ester (CA INDEX NAME)



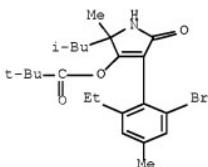
RN 852069-41-1 CAPLUS

CN Propanoic acid, 2,2-dimethyl-, 4-(2-bromo-6-ethyl-4-methylphenyl)-2,5-dihydro-2-methyl-2-(1-methylethyl)-5-oxo-1H-pyrrol-3-yl ester (CA INDEX NAME)



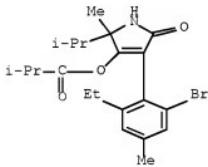
RN 852069-42-2 CAPLUS

CN Propanoic acid, 2,2-dimethyl-, 4-(2-bromo-6-ethyl-4-methylphenyl)-2,5-dihydro-2-methyl-2-(2-methylpropyl)-5-oxo-1H-pyrrol-3-yl ester (CA INDEX NAME)



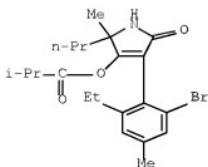
RN 852069-43-3 CAPLUS

CN Propanoic acid, 2-methyl-, 4-(2-bromo-6-ethyl-4-methylphenyl)-2,5-dihydro-2-methyl-2-(1-methylethyl)-5-oxo-1H-pyrrol-3-yl ester (CA INDEX NAME)



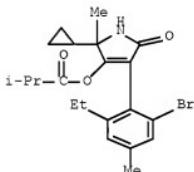
RN 852069-44-4 CAPLUS

CN Propanoic acid, 2-methyl-, 4-(2-bromo-6-ethyl-4-methylphenyl)-2,5-dihydro-2-methyl-5-oxo-2-propyl-1H-pyrrol-3-yl ester (CA INDEX NAME)



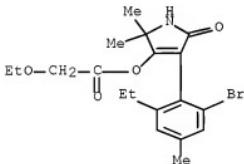
RN 852069-45-5 CAPLUS

CN Propanoic acid, 2-methyl-, 4-(2-bromo-6-ethyl-4-methylphenyl)-2-cyclopropyl-2,5-dihydro-2-methyl-5-oxo-1H-pyrrol-3-yl ester (CA INDEX NAME)



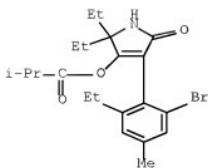
RN 852069-46-6 CAPLUS

CN Acetic acid, 2-ethoxy-, 4-(2-bromo-6-ethyl-4-methylphenyl)-2,5-dihydro-2,2-dimethyl-5-oxo-1H-pyrrol-3-yl ester (CA INDEX NAME)



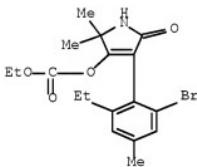
RN 852069-47-7 CAPLUS

CN Propanoic acid, 2-methyl-, 4-(2-bromo-6-ethyl-4-methylphenyl)-2,2-diethyl-2,5-dihydro-5-oxo-1H-pyrrol-3-yl ester (CA INDEX NAME)



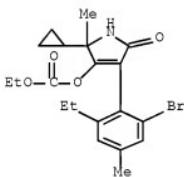
RN 852069-49-9 CAPLUS

CN Carbonic acid, 4-(2-bromo-6-ethyl-4-methylphenyl)-2,5-dihydro-2,2-dimethyl-5-oxo-1H-pyrrol-3-yl ethyl ester (CA INDEX NAME)



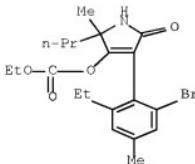
RN 852069-50-2 CAPLUS

CN Carbonic acid, 4-(2-bromo-6-ethyl-4-methylphenyl)-2-cyclopropyl-2,5-dihydro-2-methyl-5-oxo-1H-pyrrol-3-yl ethyl ester (CA INDEX NAME)



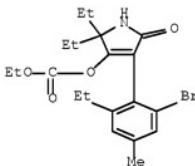
RN 852069-51-3 CAPLUS

CN Carbonic acid, 4-(2-bromo-6-ethyl-4-methylphenyl)-2,5-dihydro-2-methyl-5-oxo-2-propyl-1H-pyrrol-3-yl ethyl ester (CA INDEX NAME)



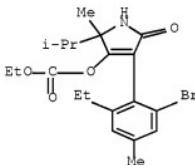
RN 852069-56-8 CAPLUS

CN Carbonic acid, 4-(2-bromo-6-ethyl-4-methylphenyl)-2,2-diethyl-2,5-dihydro-5-oxo-1H-pyrrol-3-yl ethyl ester (CA INDEX NAME)



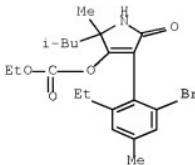
RN 852069-57-9 CAPLUS

CN Carbonic acid, 4-(2-bromo-6-ethyl-4-methylphenyl)-2,5-dihydro-2-methyl-2-(1-methylethyl)-5-oxo-1H-pyrrol-3-yl ethyl ester (CA INDEX NAME)



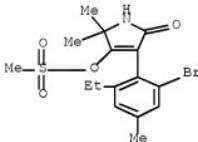
RN 852069-58-0 CAPLUS

CN Carbonic acid, 4-(2-bromo-6-ethyl-4-methylphenyl)-2,5-dihydro-2-methyl-2-(2-methylpropyl)-5-oxo-1H-pyrrol-3-yl ethyl ester (CA INDEX NAME)



RN 852069-59-1 CAPLUS

CN 2H-Pyrrol-2-one, 3-(2-bromo-6-ethyl-4-methylphenyl)-1,5-dihydro-5,5-dimethyl-4-((methylsulfonyl)oxy)- (CA INDEX NAME)

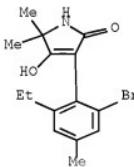


IT 852069-73-9

RL: RCT (Reactant); RACT (Reactant or reagent)
(preparation of phenylpyrrolidinediones as herbicides)

RN 852069-73-9 CAPLUS

CN 2H-Pyrrol-2-one, 3-(2-bromo-6-ethyl-4-methylphenyl)-1,5-dihydro-4-hydroxy-5,5-dimethyl- (CA INDEX NAME)



REFERENCE COUNT:

9

THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 22 OF 53 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2005:54983 CAPLUS [Full-text](#)

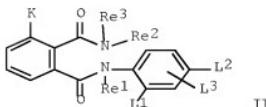
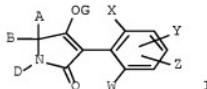
DOCUMENT NUMBER: 142:129079

TITLE: Synergistic insecticidal and acaricidal mixtures of

INVENTOR(S): cyclic keto-enols and phthalic acid diamides
 Fischer, Reiner; Fischer, Ruediger; Funke, Christian;
 Thielt, Wolfgang
 PATENT ASSIGNEE(S): Bayer Cropscience Aktiengesellschaft, Germany
 SOURCE: PCT Int. Appl., 61 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: German
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005004603	A1	20050120	WO 2004-EP6914	20040625
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
DE 10330724	A1	20050127	DE 2003-10330724	20030708
AU 2004255412	A1	20050120	AU 2004-255412	20040625
EP 1646281	A1	20060419	EP 2004-740323	20040625
EP 1646281	B1	20070523		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, FI, RO, CY, TR, BG, CZ, EE, HU, PL, SK				
BR 2004011862	A	20060808	BR 2004-11862	20040625
CN 1819767	A	20060816	CN 2004-80019445	20040625
AT 362700	T	20070615	AT 2004-740323	20040625
ES 2286641	T3	20071201	ES 2004-740323	20040625
IN 2005DN06020	A	20080509	IN 2005-DN6020	20051223
MX 2006PA00200	A	20060411	MX 2006-PA200	20060105
US 20070265266	A1	20071115	US 2007-563794	20070402
PRIORITY APPLN. INFO.:			DE 2003-10330724	A 20030708
			WO 2004-EP6914	W 20040625

OTHER SOURCE(S): MARPAT 142:129079
 GI



AB Combinations of cyclic keto-enols (I, X = halo, (halo)alkyl, (halo)alkoxy, or CN; W, Y, Z = H or X; A = H, (halo)alkyl, etc.; B = H or alkyl; D = H, (un)substituted alkyl, alkenyl, alkoxyalkyl, cycloalkyl, heterocyclyl; G = H, COR, etc.; R = (halo)alkyl, etc.; A and B or A and D may form part of a ring) and phthalic acid diamides (II, K = H, CN, (halo)alkyl, (halo)alkoxy; Re1, Re2, Re3 = independently H, CN, (halo)C3-8 cycloalkyl, etc.; L1, L2, L3 = independently H, halo, CN, etc.) exhibit excellent insecticidal and acaricide properties. Thus, Et 3-(2,5-dimethylphenyl)-8-methoxy-2-oxo-1-azaspiro[4.5]dec-3-en-4-ylcarbonate + N2-[1,1-dimethyl-2-(methylsulfonyl)ethyl]-3-iodo-N1-[2-methyl-4-[1,2,2-tetrafluoro-1-(trifluoromethyl)ethyl]phenyl]-1,2-benzenedicarboxamide (0.8 + 0.0064 ppm) synergistically controlled *Plutella xylostella* on cabbage.

IT 382608-07-3D, mixts. with phthalic acid diamides

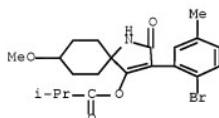
382608-09-4D, mixts. with phthalic acid diamides

382608-13-1D, mixts. with phthalic acid diamides

RL: AGR (Agricultural use); BSU (Biological study, unclassified); BIOL (Biological study); USES (Uses)
(as synergistic insecticides and acaricides)

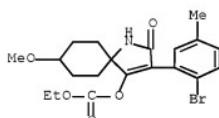
RN 382608-07-3 CAPLUS

CN Propanoic acid, 2-methyl-, 3-(2-bromo-5-methylphenyl)-8-methoxy-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ester (CA INDEX NAME)



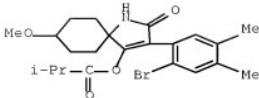
RN 382608-08-4 CAPLUS

CN Carbonic acid, 3-(2-bromo-5-methylphenyl)-8-methoxy-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ethyl ester (CA INDEX NAME)



RN 382608-13-1 CAPLUS

CN Propanoic acid, 2-methyl-, 3-(2-bromo-4,5-dimethylphenyl)-8-methoxy-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ester (CA INDEX NAME)



REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 23 OF 53 CAPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 2004:1127373 CAPLUS [Full-text](#)
 DOCUMENT NUMBER: 142:56298
 TITLE: Preparation of N-heterocyclphenyl-substituted cyclic ketoenols as pesticides and/or herbicides and/or microbicides.
 INVENTOR(S): Fischer, Reiner; Ullmann, Astrid; Bretschneider, Thomas; Lehr, Stefan; Kunz, Klaus; Konze, Joerg; Malsam, Olga; Drewes, Mark Wilhelm; Feucht, Dieter; Kuck, Karl-Heinz; Wachendorff-Neumann, Ulrike; Moradi, Wahed Ahmed; Bojack, Guido; Auler, Thomas; Hills, Martin; Kehne, Heinz
 PATENT ASSIGNEE(S): Bayer Cropscience Aktiengesellschaft, Germany
 SOURCE: PCT Int. Appl., 311 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: German
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004111042	A1	20041223	WO 2004-EP6127	20040607
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
DE 10326386	A1	20041230	DE 2003-10326386	20030612
AU 2004247370	A1	20041223	AU 2004-247370	20040607
CA 2528888	A1	20041223	CA 2004-2528888	20040607
EP 1638957	A1	20060329	EP 2004-739660	20040607
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, FI, RO, CY, TR, BG, CZ, EE, HU, PL, SK				
BR 2004011339	A	20060711	BR 2004-11339	20040607
CN 1832938	A	20060913	CN 2004-80022751	20040607
JP 2006527224	T	20061130	JP 2006-515838	20040607
MX 2005PA13259	A	20060309	MX 2005-PA13259	20051207
US 20060166829	A1	20060727	US 2005-559703	20051207
IN 2006DE00830	A	20070831	IN 2006-DE830	20060327

PRIORITY APPLN. INFO.:

DE 2003-10326386

A 20030612

WO 2004-EP6127

W 20040607

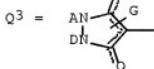
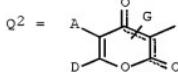
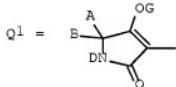
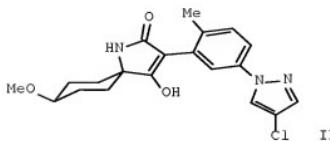
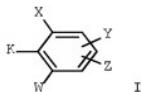
IN 2004-DE1070

A3 20040608

OTHER SOURCE(S):

MAPAT 142:56298

GI



AB Title compd. [I; X = halo, alkyl, alkenyl, alkynyl, alkoxy, alkenyloxy, alkylthio, alkylsulfinyl, alkylsulfonyl, haloalkyl, NO₂, cyano, (substituted) Ph, PhO, PhS, phenylalkoxy, phenylalkylthio, etc.; W, Y = H, halo, alkyl, alkenyl, alkynyl, alkoxy, alkenyloxy, haloalkyl, haloalkoxy, haloalkenyloxy, NO₂, cyano; Z = (substituted) (unsatd.) heterocyclil; K = Q1-Q3; A = H, (halo-substituted) alkyl, alkenyl, alkoxyalkyl, alkylthioalkyl, (unsatd.) (substituted) cycloalkyl, etc.; B = H, alkyl, alkoxyalkyl; D = H, (substituted) alkyl, alkenyl, alkynyl, alkoxyalkyl, (unsatd.) cycloalkyl, etc.; A, B = atoms to form (heterocyclic) ring; G = COR1, SO2R3, C(:L)MR2, etc.; L, M = O, S; R1 = (halo-substituted) alkyl, alkenyl, alkynyl, alkoxyalkyl, alkylthioalkyl, etc.; R2 = (halo-substituted) alkyl, alkenyl, alkynyl, polyalkoxyalkyl, etc.; R3 = (halo-substituted) alkyl, alkoxy, alkylamino, alkylthio, alkenylthio, cycloalkylthio, etc.], were prepared. Thus, Me 1-amino-4-methoxycyclohexanecarboxylate hydrochloride was stirred 5 min. with Et₃N in THF; 2-methyl-5-[1-(4-chloropyrazolyl)]phenylacetic acid (preparation given) was added followed by stirring for 15 min. Et₃N and POC13 were added followed by 30 min. reflux to give 75% title compound (II). II at 100 ppm gave 85% kill of *Spodoptera frugiperda* on cabbage leaves.

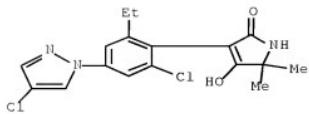
IT 810693-61-9P 810693-62-0P 810693-65-3P
810693-80-2P 810693-81-3P 810693-83-5P

RL: AGR (Agricultural use); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of N-heterocyclphenyl-substituted cyclic ketoenols as pesticides and/or herbicides and/or microbicides)

RN 810693-61-9 CAPLUS

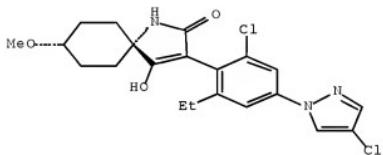
CN 2H-Pyrrol-2-one, 3-[2-chloro-4-(4-chloro-1H-pyrazol-1-yl)-6-ethylphenyl]-1,5-dihydro-4-hydroxy-5,5-dimethyl- (CA INDEX NAME)



RN 810693-62-0 CAPLUS

CN 1-Azaspiro[4.5]dec-3-en-2-one, 3-[2-chloro-4-(4-chloro-1H-pyrazol-1-yl)-6-ethylphenyl]-4-hydroxy-8-methoxy-, (5a,8a)- (CA INDEX NAME)

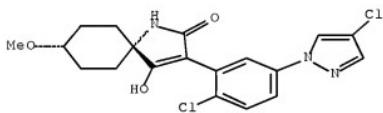
Relative stereochemistry.



RN 810693-65-3 CAPLUS

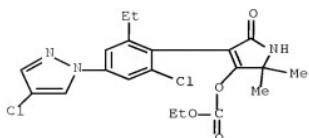
CN 1-Azaspiro[4.5]dec-3-en-2-one, 3-[2-chloro-5-(4-chloro-1H-pyrazol-1-yl)phenyl]-4-hydroxy-8-methoxy-, (5a,8a)- (CA INDEX NAME)

Relative stereochemistry.



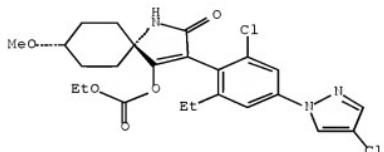
RN 810693-80-2 CAPLUS

CN Carbonic acid, 4-[2-chloro-4-(4-chloro-1H-pyrazol-1-yl)-6-ethylphenyl]-2,5-dihydro-2,2-dimethyl-5-oxo-1H-pyrrol-3-yl ethyl ester (CA INDEX NAME)

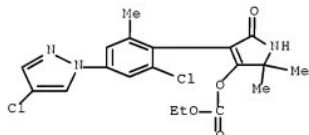


RN 810693-81-3 CAPLUS
CN Carbonic acid, cis-3-[2-chloro-4-(4-chloro-1H-pyrazol-1-yl)-6-ethylphenyl]-8-methoxy-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ethyl ester (9CI) (CA INDEX NAME)

Relative stereochemistry.



RN 810693-83-5 CAPLUS
CN Carbonic acid, 4-[2-chloro-4-(4-chloro-1H-pyrazol-1-yl)-6-methylphenyl]-2,5-dihydro-2,2-dimethyl-5-oxo-1H-pyrrol-3-yl ethyl ester (CA INDEX NAME)



REFERENCE COUNT: 10 THERE ARE 10 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 24 OF 53 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 2004:605440 CAPLUS [Full-text](#)
DOCUMENT NUMBER: 141:157029
TITLE: Preparation of 2,4-Dihalogen-6-(C₂-C₃-alkyl)-phenyl substituted tetramic acid derivatives for use as pesticides and/or herbicides
INVENTOR(S): Fischer, Reiner; Lehr, Stefan; Schneider, Udo; Dollinger, Markus; Drewes, Mark Wilhelm; Feucht, Dieter; Loessel, Peter; Malsam, Olga; Wachendorff-Neumann, Ulrike; Wetcholowsky, Ingo; Hagemann, Hermann; Erdelen, Christoph; Myers, Randy Allen; Bojack, Guido; Auler, Thomas; Hills, Martin Bayer Cropscience Ag, Germany
PATENT ASSIGNEE(S): Ger. Offen., 64 pp.
SOURCE: CODEN: GWXXBX
DOCUMENT TYPE: Patent
LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

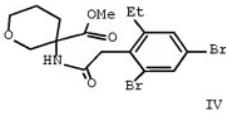
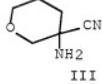
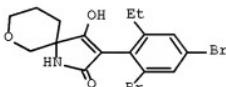
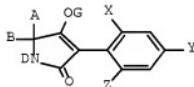
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 10301804	A1	20040729	DE 2003-10301804	20030120
AU 2004205350	A1	20040805	AU 2004-205350	20040107
CA 2513501	A1	20040805	CA 2004-2513501	20040107
WO 2004065366	A1	20040805	WO 2004-EP36	20040107
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI				
EP 1587786	A1	20051026	EP 2004-700446	20040107
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
BR 2004006854	A	20051227	BR 2004-6854	20040107
CN 1761651	A	20060419	CN 2004-80007508	20040107
JP 2006517923	T	20060803	JP 2006-500520	20040107
CN 101172930	A	20080507	CN 2007-10196067	20040107
IN 2005DN02886	A	20070105	IN 2005-DN2886	20050629
US 20060160847	A1	20060720	US 2006-542514	20060202
IN 2008DE00415	A	20080516	IN 2008-DE415	20080219
PRIORITY APPLN. INFO.:			DE 2003-10301804	A 20030120
			CN 2004-80007508	A3 20040107
			WO 2004-EP36	W 20040107
			IN 2005-DN2886	A3 20050629

OTHER SOURCE(S):

CASREACT 141:157029; MARPAT 141:157029

GI



AB The invention concerns new 2,4-dihalogen-6-(C2-3-alkyl)phenyl-substituted tetramic acid derivs., I [X, Y = halogen; Z = Et, propyl; if G = H, then A = H, alkyl, cycloalkyl, alkoxyalkyl; B = H, alkyl, alkoxyalkyl; CBA = (un)satd, C3-8-cycloalkyl (optionally substituted with alkyl, cycloalkyl); D = H, (un)substituted alkyl, alkenyl, alkynyl, alkoxyalkyl, alkylthioalkyl, cycloalkyl; AD = (un)substituted, (un)saturated heterocycle; G = E, COR1, C(:L)MR2, SO2R3, P(:L)R4R5, C(:L)NR6R7; E = metal ion equivalent, ammonium ion; LK = O, S; M = O, S; R1 = halo-substituted alkyl, alkenyl, alkoxyalkyl, alkylthio, polyalkoxyalkyl, halocycloalkyl, alkylcycloalkyl, alkoxyalkyl,

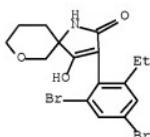
heterocyclyl, Ph, heteroaryl; R2 = halo-substituted alkyl, alkenyl, alkoxyalkyl, polyalkoxyalkyl, cycloalkyl, Ph, CH2Ph; R3, R4, R5 = halo-substituted alkyl, alkoxy, (di)alkylamino, alkylthio, cycloalkylthio; R6, R7 = H, halo-substituted alkyl, alkoxy, cycloalkyl, alkenyl, alkoxyalkyl, Ph, CH2Ph, etc.], several procedures and intermediates for their production and its use as pesticides and/or herbicides. Thus, tetramic acid II was prepared from (2,4-dibromo-6-ethylphenyl)acetic acid via chlorination with SOC12, amidation with 3-amino-3-cyanotetrahydrofuran (III), methanolysis to give ester IV, and intramol. cyclocondensation with Me3COK in DMP. The agrochem. properties of I were determined [for I (AB = CH2CH2CHMeCH2CH2, D = H, X= Y= Br, Z = Et) kill rate: 90% vs. *Aphis gossypii* at 200 ppm; 100% vs. *Bemisia tabaci* at 40 ppm; 95% vs. *Myzus persicae* at 9 ppm; post-emergence herbicidal activity at 125 g ai/ha = 90% vs. *Bromus*, 100% vs. *Echinochloa*, 100% vs. *Lolium* and 100% vs. *Sorghum*

IT 728023-36-7P

RL: AGR (Agricultural use); BSU (Biological study, unclassified); RCT (Reactant); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)
(preparation and O-acylation of, with isobutyryl chloride; preparation of 2,4-Dihalogen-6-(C2-C3-alkyl)-Ph substituted tetramic acid derivs. for use as pesticides and/or herbicides)

RN 728023-36-7 CAPLUS

CN 7-Oxa-1-azaspiro[4.5]dec-3-en-2-one,
3-(2,4-dibromo-6-ethylphenyl)-4-hydroxy- (CA INDEX NAME)



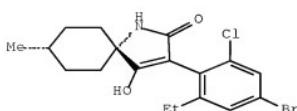
IT 728023-41-4P

RL: AGR (Agricultural use); BSU (Biological study, unclassified); RCT (Reactant); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)
(preparation and acylation reactions of; preparation of 2,4-Dihalogen-6-(C2-C3-alkyl)-Ph substituted tetramic acid derivs. for use as pesticides and/or herbicides)

RN 728023-41-4 CAPLUS

CN 1-Azaspiro[4.5]dec-3-en-2-one, 3-(4-bromo-2-chloro-6-ethylphenyl)-4-hydroxy-8-methyl-, (5a,8a)- (CA INDEX NAME)

Relative stereochemistry.

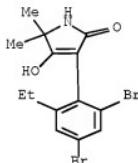


IT 728023-45-8P

RL: AGR (Agricultural use); BSU (Biological study, unclassified); RCT (Reactant); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)
(preparation and reaction of, with Et chloroformate; preparation of 2,4-Dihalogen-6-(C2-C3-alkyl)-Ph substituted tetramic acid derivs. for use as pesticides and/or herbicides)

RN 728023-45-8 CAPLUS

CN 2H-Pyrrol-2-one, 3-(2,4-dibromo-6-ethylphenyl)-1,5-dihydro-4-hydroxy-5,5-dimethyl- (CA INDEX NAME)



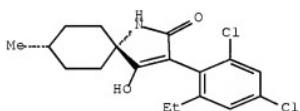
IT 728023-37-8P

RL: AGR (Agricultural use); BSU (Biological study, unclassified); RCT (Reactant); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)
(preparation of 2,4-Dihalogen-6-(C2-C3-alkyl)-Ph substituted tetramic acid derivs. for use as pesticides and/or herbicides)

RN 728023-37-8 CAPLUS

CN 1-Azaspiro[4.5]dec-3-en-2-one, 3-(2,4-dichloro-6-ethylphenyl)-4-hydroxy-8-methyl-, (5a,8a)- (CA INDEX NAME)

Relative stereochemistry.



IT 728023-38-9P 728023-39-0P 728023-40-3P

728023-42-5P 728023-43-6P 728023-44-7P

728023-46-9P 728023-47-0P 728023-48-1P

728023-50-5P 728023-51-6P 728023-52-7P

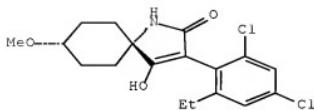
728023-53-8P

RL: AGR (Agricultural use); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of 2,4-Dihalogen-6-(C2-C3-alkyl)-Ph substituted tetramic acid derivs. for use as pesticides and/or herbicides)

RN 728023-38-9 CAPLUS

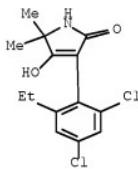
CN 1-Azaspiro[4.5]dec-3-en-2-one, 3-(2,4-dichloro-6-ethylphenyl)-4-hydroxy-8-methoxy-, (5a,8a)- (CA INDEX NAME)

Relative stereochemistry.



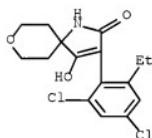
RN 728023-39-0 CAPLUS

CN 2H-Pyrrol-2-one, 3-(2,4-dichloro-6-ethylphenyl)-1,5-dihydro-4-hydroxy-5,5-dimethyl- (CA INDEX NAME)



RN 728023-40-3 CAPLUS

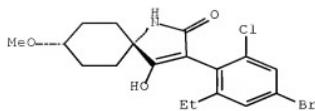
CN 8-Oxa-1-azaspiro[4.5]dec-3-en-2-one,
3-(2,4-dichloro-6-ethylphenyl)-4-hydroxy- (CA INDEX NAME)



RN 728023-42-5 CAPLUS

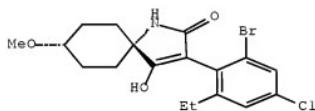
CN 1-Azaspiro[4.5]dec-3-en-2-one, 3-(4-bromo-2-chloro-6-ethylphenyl)-4-hydroxy-8-methoxy-, (5a,8a)- (CA INDEX NAME)

Relative stereochemistry.

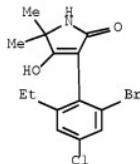


RN 728023-43-6 CAPLUS
 CN 1-Azaspiro[4.5]dec-3-en-2-one, 3-(2-bromo-4-chloro-6-ethylphenyl)-4-hydroxy-8-methoxy-, (5a,8a)- (CA INDEX NAME)

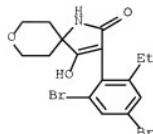
Relative stereochemistry.



RN 728023-44-7 CAPLUS
 CN 2H-Pyrrol-2-one, 3-(2-bromo-4-chloro-6-ethylphenyl)-1,5-dihydro-4-hydroxy-5,5-dimethyl- (CA INDEX NAME)



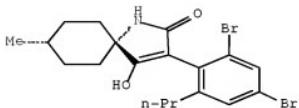
RN 728023-46-9 CAPLUS
 CN 8-Oxa-1-azaspiro[4.5]dec-3-en-2-one,
 3-(2,4-dibromo-6-ethylphenyl)-4-hydroxy- (CA INDEX NAME)



RN 728023-47-0 CAPLUS

CN 1-Azaspiro[4.5]dec-3-en-2-one, 3-(2,4-dibromo-6-propylphenyl)-4-hydroxy-8-methyl-, (5a,8a)- (CA INDEX NAME)

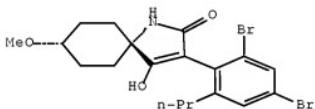
Relative stereochemistry.



RN 728023-48-1 CAPLUS

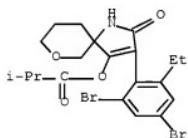
CN 1-Azaspiro[4.5]dec-3-en-2-one, 3-(2,4-dibromo-6-propylphenyl)-4-hydroxy-8-methoxy-, (5a,8a)- (CA INDEX NAME)

Relative stereochemistry.



RN 728023-50-5 CAPLUS

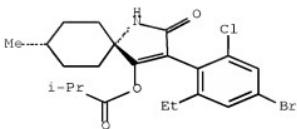
CN Propanoic acid, 2-methyl-, 3-(2,4-dibromo-6-ethylphenyl)-2-oxo-7-oxa-1-azaspiro[4.5]dec-3-en-4-yl ester (CA INDEX NAME)



RN 728023-51-6 CAPLUS

CN Propanoic acid, 2-methyl-, (5a,8a)-3-(4-bromo-2-chloro-6-ethylphenyl)-8-methyl-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ester (CA INDEX NAME)

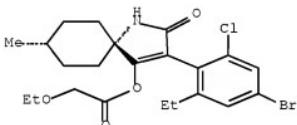
Relative stereochemistry.



RN 728023-52-7 CAPLUS

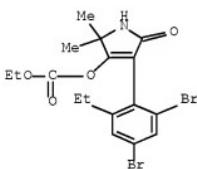
CN Acetic acid, 2-ethoxy-, (5a,8a)-3-(4-bromo-2-chloro-6-ethylphenyl)-8-methyl-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ester (CA INDEX NAME)

Relative stereochemistry.



RN 728023-53-8 CAPLUS

CN Carbonic acid, 4-(2,4-dibromo-6-ethylphenyl)-2,5-dihydro-2,2-dimethyl-5-oxo-1H-pyrrol-3-yl ethyl ester (CA INDEX NAME)



L3 ANSWER 25 OF 53 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2004:177952 CAPLUS [Full-text](#)

DOCUMENT NUMBER: 140:235593

TITLE: Preparation of spirocyclic pyrrolones as pesticides, herbicides, and fungicides.

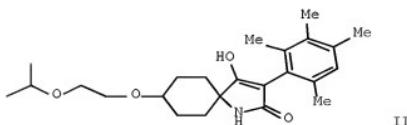
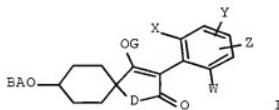
INVENTOR(S): Fischer, Reiner; Bretschneider, Thomas; Erdelen, Christoph; Konze, Joerg; Loesel, Peter; Drewes, Mark-Wilhelm; Feucht, Dieter; Kuck, Karl Heinz; Wachendorff-Neumann, Ulrike

PATENT ASSIGNEE(S): Bayer CropScience A.-G., Germany

SOURCE: Ger. Offen., 76 pp.
 DOCUMENT TYPE: Patent
 LANGUAGE: German
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 10239479	A1	20040304	DE 2002-10239479	20020828
IN 2003MU00783	A	20050304	IN 2003-MU'83	20030811
CA 2497074	A1	20040325	CA 2003-2497074	20030818
WO 2004024688	A1	20040325	WO 2003-EP9103	20030818
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
AU 2003264061	A1	20040430	AU 2003-264061	20030818
AU 2003264061	B2	20081113		
EP 1537080	A1	20050608	EP 2003-794887	20030818
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
BR 2003014087	A	20050719	BR 2003-14087	20030818
CN 1694869	A	20051109	CN 2003-824766	20030818
JP 2006503027	T	20060126	JP 2004-535099	20030818
MX 2005PA02118	A	20050523	MX 2005-PA2118	20050223
US 20070275858	A1	20071129	US 2005-525920	20050225
PRIORITY APPLN. INFO.:			DE 2002-10239479	A 20020828
			WO 2003-EP9103	W 20030818

OTHER SOURCE(S): MARPAT 140:235593
 GI



AB Title compds. [I; W = H, halo, alkyl, alkoxy; X = halo, alkyl, alkoxy, haloalkyl, haloalkoxy, cyano; Y = H, halo, cyano, alkyl, haloalkyl, Ph; Z = H,

alkyl, halo; A = (substituted) (heteroatom-interrupted) alkylene; B = (substituted) alkenyl, alkoxy, Ph, heteroaryl, cycloalkyl, etc.; D = NH, O; G = H, COR, SO₂R₃, C(:L)NR₆R₇, etc.; L = O, S; R₁ = (substituted) alkyl, alkenyl, alkoxyalkyl, cycloalkyl, Ph, PhCH₂, etc.; R₃ = (substituted) alkyl, alkoxy, alkylamino, alkylthio, Ph, PhCH₂, PhS, etc.; R₆, R₇ = H, (substituted) alkyl, cycloalkyl, alkenyl, alkoxy, alkoxyalkyl, Ph, PhCH₂, etc.], were prepared. Thus, title compound (II) at 1000 ppm gave 100% control of *Myzus persicae* on cabbage leaves.

IT 668459-92-5P 668459-93-6P 668460-10-4P

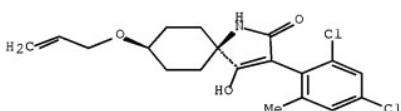
RL: AGR (Agricultural use); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of spirocyclic pyrrolones as pesticides, herbicides, and fungicides)

RN 668459-92-5 CAPLUS

CN 1-Azaspiro[4.5]dec-3-en-2-one, 3-(2,4-dichloro-6-methylphenyl)-4-hydroxy-8-(2-propen-1-yloxy)-, (5a,8a)- (CA INDEX NAME)

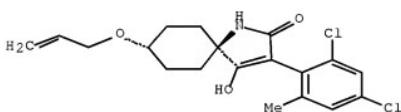
Relative stereochemistry.



RN 668459-93-6 CAPLUS

CN 1-Azaspiro[4.5]dec-3-en-2-one, 3-(2,4-dichloro-6-methylphenyl)-4-hydroxy-8-(2-propen-1-yloxy)-, (5a,8β)- (CA INDEX NAME)

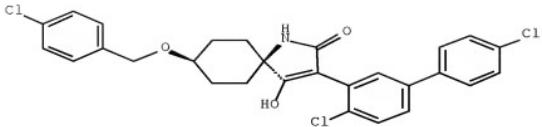
Relative stereochemistry.



RN 668460-10-4 CAPLUS

CN 1-Azaspiro[4.5]dec-3-en-2-one, 8-[(4-chlorophenyl)methoxy]-3-(4,4'-dichloro[1,1'-biphenyl]-3-yl)-4-hydroxy-, (5a,8a)- (CA INDEX NAME)

Relative stereochemistry.



L3 ANSWER 26 OF 53 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2004:57290 CAPLUS Full-text

DOCUMENT NUMBER: 140:111273

TITLE: Preparation of cis-alkoxy-substituted spirocyclic 1H-pyrrolidine-2,4-diones as insecticides and acaricides

INVENTOR(S): Himmeler, Thomas; Fischer, Reiner; Gallenkamp, Bernd; Knops, Hans-Joachim; Mulder, Lubbertus; Lantzsch, Reinhard; Erdelen, Christoph; Konze, Joerg; Nauen, Ralf

PATENT ASSIGNEE(S): Bayer CropScience A.-G., Germany
Ger. Offen., 62 pp.

SOURCE: CODEN: GWXXBX
Patent

DOCUMENT TYPE: Patent

LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 10231333	A1	20040122	DE 2002-10231333	20020711
CA 2492096	A1	20040122	CA 2003-2492096	20030701
WO 2004007448	A1	20040122	WO 2003-EP6980	20030701
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KE, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
AU 2003281028	A1	20040202	AU 2003-281028	20030701
EP 1523472	A1	20050420	EP 2003-740394	20030701
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
BR 2003012695	A	20050426	BR 2003-12695	20030701
CN 1692099	A	20051102	CN 2003-821634	20030701
CN 100374419	C	20080312		
JP 2005538073	T	20051215	JP 2004-520451	20030701
RU 2340601	C2	20081210	RU 2005-103619	20030701
IN 2003MU00679	A	20050304	IN 2003-MU679	20030703
EG 23484	A	20051203	EG 2003-656	20030709
MX 2005PA00364	A	20050331	MX 2005-PA364	20050106
US 20070032539	A1	20070208	US 2005-520549	20050106
ZA 2005000230	A	20060329	ZA 2005-230	20050111

PRIORITY APPLN. INFO.:

DE 2002-10231333

A 20020711

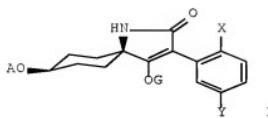
OTHER SOURCE(S):

MARPAT 140:111273

WO 2003-EP6980

W 20030701

GI



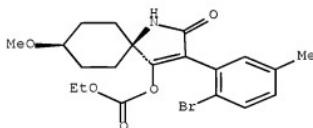
AB Title compds. [I; X = alkyl, halo, alkoxy, haloalkyl, haloalkoxy; Y = H, alkyl, alkoxy, halo, haloalkyl, haloalkoxy; A = C1-6 alkyl; G = H, COR1, COMR2; M = O, S; R1 = (halogenated) alkyl, alkenyl, alkoxyalkyl, alkylthioalkyl, etc.; R2 = (halogenated) alkyl, alkenyl, alkoxyalkyl, polyalkoxyalkyl, etc.], were prepared Thus, a mixture of 3-(2,5-dimethylphenyl)-4-hydroxy-8-methoxy-1-azaspiro[4.5]dec-3-en-2-one (preparation given) and Et3N in chlorobenzene was dropwise treated with ClCO2Et in chlorobenzene followed by stirring for 4 h at 60°-65° to give 298% 3-(2,5-dimethylphenyl)-4-ethylcarbonyloxy-8-methoxy-1-azaspiro[4.5]dec-3-en-2-one. The latter at 20 ppm gave 90% control of *Aphis gossipii*.

IT 647852-66-0P

RL: AGR (Agricultural use); BSU (Biological study, unclassified); RCT (Reactant); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)
(preparation of cis-alkoxy-substituted spirocyclic 1H-pyrrolidine-2,4-diones as insecticides)

RN 647852-66-2 CAPLUS**CN** Carbonic acid, cis-3-(2-bromo-5-methylphenyl)-8-methoxy-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ethyl ester (CA INDEX NAME)

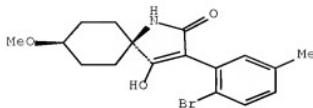
Relative stereochemistry.

**IT** 647852-65-1P

RL: AGR (Agricultural use); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of cis-alkoxy-substituted spirocyclic 1H-pyrrolidine-2,4-diones as insecticides)

RN 647852-65-1 CAPLUS**CN** 1-Azaspiro[4.5]dec-3-en-2-one, 3-(2-bromo-5-methylphenyl)-4-hydroxy-8-methoxy-, (5a,8a)- (CA INDEX NAME)

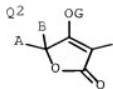
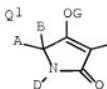
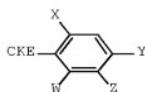
Relative stereochemistry.



L3 ANSWER 27 OF 53 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 20031570702 CAPLUS [Full-text](#)
DOCUMENT NUMBER: 139:96696
TITLE: Fungicidal biphenyl-substituted cyclic ketoenols
INVENTOR(S): Fischer, Reiner; Ullmann, Astrid; Bretschneider, Thomas; Mauler-Machnik, Astrid; Kuck, Karl-Heinz; Wachendorff-Neumann, Ulrike
PATENT ASSIGNEE(S): Bayer CropScience AG, Germany
SOURCE: PCT Int. Appl., 123 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003059065	A1	20030724	WO 2003-EP26	20030103
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KE, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW			
RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
DE 10201239	A1	20030724	DE 2002-10201239	20020115
AU 2003206693	A1	20030730	AU 2003-206693	20030103
PRIORITY APPLN. INFO.:			DE 2002-10201239	A 20020115
			WO 2003-EP26	W 20030103

OTHER SOURCE(S): MARPAT 139:96696
GI



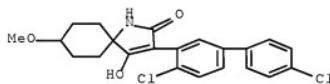
AB The invention relates to the fungicidal use of the title compds. I [X = halo, (halo)alkyl, (halo)alkoxy, NO₂, CN; Z = (un)substituted aryl; W, Y = H or X; CKE = Q1, Q2, etc.; A = H, (halo)alkyl, (halo)alkenyl, etc.; B = H or alkyl; ACB = (un)substituted ring; D = H, (un)substituted cycloalkyl, etc.; ACND = (un)substituted ring; G = H, C(O)R1, C(L)MR2, etc.; R1 = (halo)alkyl, (halo)alkenyl, (un)substituted cycloalkyl, Ph, etc.; R2 = (halo)alkyl, (halo)alkenyl, (halo)alkoxyalkyl, (halo)polyalkoxyalkyl, (un)substituted cycloalkyl Ph or benzyl; L, M = O or S].

IT 244158-75-6 244158-76-7

RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)
(fungicide)

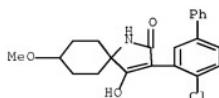
RN 244158-75-6 CAPLUS

CN 1-Azaspido[4.5]dec-3-en-2-one, 3-(4,4'-dichloro[1,1'-biphenyl]-3-yl)-4-hydroxy-8-methoxy- (CA INDEX NAME)



RN 244158-76-7 CAPLUS

CN 1-Azaspido[4.5]dec-3-en-2-one, 3-(4-chloro[1,1'-biphenyl]-3-yl)-4-hydroxy-8-methoxy- (CA INDEX NAME)



REFERENCE COUNT:

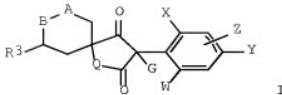
4

THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

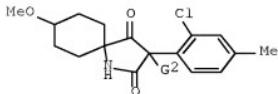
L3 ANSWER 28 OF 53 CAPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 2003:282535 CAPLUS Full-text
 DOCUMENT NUMBER: 138:304155
 TITLE: Preparation of spirocyclic
 4-oxo-3-phenyl-3-substituted lactams and lactones as
 pesticides/herbicides.
 INVENTOR(S): Fischer, Reiner; Ullmann, Astrid; Bretschneider,
 Thomas; Drewes, Mark Wilhelm; Erdelen, Christoph;
 Feucht, Dieter; Reckmann, Udo
 PATENT ASSIGNEE(S): Bayer CropScience AG, Germany
 SOURCE: PCT Int. Appl., 140 pp.
 CODEN: PIXKD2
 DOCUMENT TYPE: Patent
 LANGUAGE: German
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003029213	A1	20030410	WO 2002-EP10158	20020911
WO 2003029213	A9	20031113		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
DE 10146910	A1	20030410	DE 2001-10146910	20010924
IN 2002MU00815	A	20050121	IN 2002-MU815	20020909
CA 2464951	A1	20030410	CA 2002-2464951	20020911
AU 2002333828	A1	20030414	AU 2002-333828	20020911
EP 1432680	A1	20040630	EP 2002-800007	20020911
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, SK				
BR 2002012984	A	20041013	BR 2002-12984	20020911
CN 1558899	A	20041229	CN 2002-818692	20020911
CN 1280272	C	20061018		
JP 20050508928	T	20050407	JP 2003-532463	20020911
CN 1837194	A	20060927	CN 2006-10008665	20020911
RU 2309146	C2	20071027	RU 2004-112772	20020911
EG 23387	A	20050330	EG 2002-1050	20020922
MX 2004PA02718	A	20040705	MX 2004-PA2718	20040323
ZA 2004002259	A	20050323	ZA 2004-2259	20040323
US 20050032885	A1	20050210	US 2004-490320	20040816
US 7425575	B2	20080916		
US 20080274893	A1	20081106	US 2008-217742	20080708
PRIORITY APPLN. INFO.:			DE 2001-10146910	A 20010924
			CN 2002-818692	A3 20020911
			WO 2002-EP10158	W 20020911
			US 2004-490320	A3 20040816

OTHER SOURCE(S): MARPAT 138:304155
 GI



I



II

AB Title compds. I [W = CN, halo, alk(en/yn)yl, alkoxy, haloalkyl, haloalkoxy; X = H, alkyl, alkoxy, haloalkyl, haloalkoxy, CN; Y = H, halo, alkyl, alkoxy, haloalkyl, haloalkoxy, CN; A-B = CH₂CHOR₁, OCH₂; G = halo, NO₂; R1 = alkyl; R3 = H, alkyl; Q = NH, O] are prepared. For instance, II [G2 = Cl] is prepared via treatment of the prior art precursor II [G2 = H] with sulfonyl chloride (CHCl₃, 0°) in 48% yield. I are tested for insecticidal activity against species, such as *Myzus persicae*, *Aphis gossypii*, and *Tetranychus urticae*.

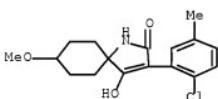
IT 507475-10-7

RL: RCT (Reactant); RACT (Reactant or reagent)

(preparation of spirocyclic 4-oxo-3-Ph-3-substituted lactams and lactones as pesticides/herbicides)

RN 507475-10-7 CAPLUS

CN 1-Azaspiro[4.5]dec-3-en-2-one, 3-(2-chloro-5-methylphenyl)-4-hydroxy-8-methoxy- (CA INDEX NAME)



REFERENCE COUNT:

5

THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 29 OF 53 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2002:368233 CAPLUS [Full-text](#)

DOCUMENT NUMBER: 136:365293

TITLE: Synergistic insecticidal and acaricidal mixtures containing cyclic ketoenols.

INVENTOR(S): Fischer, Reiner; Erdelen, Christoph

PATENT ASSIGNEE(S): Bayer Aktiengesellschaft, Germany

SOURCE: PCT Int. Appl., 66 pp.

CODEN: PIXD2

DOCUMENT TYPE: Patent

LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002037963	A1	20020516	WO 2001-EP12474	20011029
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
DE 10055941	A1	20020523	DE 2000-10055941	20001110
IN 2001MU01031	A	20050304	IN 2001-MU1031	20011022
AU 2002024807	A	20020521	AU 2002-24807	20011029
CA 2428101	A1	20030507	CA 2001-2428101	20011029
BR 2001015265	A	20030812	BR 2001-15265	20011029
EP 1335648	A1	20030820	EP 2001-993377	20011029
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
JP 2004513135	T	20040430	JP 2002-540564	20011029
HU 2004000515	A2	20040830	HU 2004-515	20011029
HU 2004000515	A3	20050329		
AT 311105	T	20051215	AT 2001-993377	20011029
ES 2250512	T3	20060416	ES 2001-993377	20011029
AU 2002224807	B2	20070524	AU 2002-224807	20011029
TW 259757	B	20060811	TW 2001-90127599	20011107
US 20040023959	A1	20040205	US 2003-415790	20030505
ZA 2003003494	A	20040603	ZA 2003-3494	20030507
MX 2003PA04140	A	20030819	MX 2003-PA4140	20030509
PRIORITY APPLN. INFO.:			DE 2000-10055941	A 20001110
			WO 2001-EP12474	W 20011029

OTHER SOURCE(S): MARPAT 136:365293

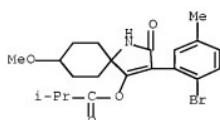
AB The title binary mixts. consist of known cyclic ketoenols (Markush given) and any of 32 known acaricides (no examples).

IT 382608-07-3D, mixts. with acaricides 382608-08-4D, mixts. with acaricides 382608-13-1D, mixts. with acaricides

RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses) (synergistic insecticidal and acaricidal compns.)

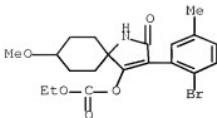
RN 382608-07-3 CAPLUS

CN Propanoic acid, 2-methyl-, 3-(2-bromo-5-methylphenyl)-8-methoxy-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ester (CA INDEX NAME)



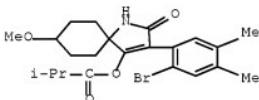
RN 382608-08-4 CAPLUS

CN Carbonic acid, 3-(2-bromo-5-methylphenyl)-8-methoxy-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ethyl ester (CA INDEX NAME)



RN 382608-13-1 CAPLUS

CN Propanoic acid, 2-methyl-, 3-(2-bromo-4,5-dimethylphenyl)-8-methoxy-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ester (CA INDEX NAME)



REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 30 OF 53 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2002:293365 CAPLUS Full-text

DOCUMENT NUMBER: 136:320810

TITLE: Synergistic insecticidal, fungicidal and acaricidal mixtures

INVENTOR(S): Fischer, Reiner; Wachendorff-Neumann, Ulrike

PATENT ASSIGNEE(S): Bayer Aktiengesellschaft, Germany

SOURCE: PCT Int. Appl., 79 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

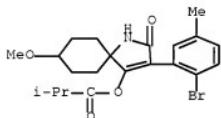
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002030199	A1	20020418	WO 2001-EP11126	20010926
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
DE 10049804	A1	20020418	DE 2000-10049804	20001009
AU 2002013967	A	20020422	AU 2002-13967	20010926
EP 1326495	A1	20030716	EP 2001-982360	20010926

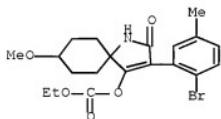
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
 IE, SI, LT, LV, FI, RO, MK, CY, AL, TR
 BR 2001014491 A 20031014 BR 2001-14491 20010926
 JP 2004510793 T 20040408 JP 2002-533652 20010926
 IN 2001MU00931 A 20050304 IN 2001-MU931 20010926
 US 20040102326 A1 20040527 US 2003-398265 20030403
 MX 2003PA03029 A 20030624 MX 2003-PA3029 20030407
 PRIORITY APPLN. INFO.: DE 2000-10049804 A 20001009
 WO 2001-EP11126 W 20010926

OTHER SOURCE(S): MARPAT 136:320810

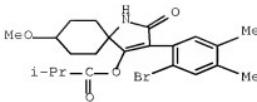
AB The title mixts. comprise known cyclic ketoenole (Markush given) and any of 55 known insecticides, fungicides or acaricides, such as fluquinconazole, tebuconazole, bitertanol, triadimenol, triadimefon, difenoconazole, flusilazole, prochloraz, penconazole, etc.
 IT 382608-07-3D, mixts. containing 382608-08-4D, mixts. containing 382608-13-1D, mixts. containing
 RL: AGR (Agricultural use); BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
 (synergistic pesticidal mixts.)
 RN 382608-07-3 CAPLUS
 CN Propanoic acid, 2-methyl-, 3-(2-bromo-5-methylphenyl)-8-methoxy-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ester (CA INDEX NAME)



RN 382608-08-4 CAPLUS
 CN Carbonic acid, 3-(2-bromo-5-methylphenyl)-8-methoxy-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ethyl ester (CA INDEX NAME)



RN 382608-13-1 CAPLUS
 CN Propanoic acid, 2-methyl-, 3-(2-bromo-4,5-dimethylphenyl)-8-methoxy-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ester (CA INDEX NAME)



REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 31 OF 53 CAPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 2002:184833 CAPLUS [Full-text](#)
 DOCUMENT NUMBER: 136:228368
 TITLE: Synergistic insecticidal and acaricidal compositions
 INVENTOR(S): Fischer, Reiner; Erdelen, Christoph
 PATENT ASSIGNEE(S): Bayer Aktiengesellschaft, Germany
 SOURCE: PCT Int. Appl., 59 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: German
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002019824	A1	20020314	WO 2001-EP9731	20010823
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KE, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NC, NZ, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
DE 10043610	A1	20020314	DE 2000-10043610	20000905
AU 2001082119	A	20020322	AU 2001-82119	20010823
CA 2420874	A1	20030228	CA 2001-2420874	20010823
BR 2001014043	A	20030729	BR 2001-14043	20010823
EP 1330161	A1	20030730	EP 2001-960702	20010823
EP 1330161	B1	20051109		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
CN 1452457	A	20031029	CN 2001-815123	20010823
JP 2004508308	T	20040318	JP 2002-524316	20010823
AT 308884	T	20051115	AT 2001-960702	20010823
ES 2248378	T3	20060316	ES 2001-960702	20010823
AU 2001282119	B2	20060810	AU 2001-282119	20010823
RU 2287932	C2	20061127	RU 2003-109757	20010823
CN 1915023	A	20070221	CN 2006-10105911	20010823
IN 2001MU00814	A	20050304	IN 2001-MU814	20010824
TW 278282	B	20070411	TW 2001-90121713	20010903
KR 745448	B1	20070803	KR 2003-702160	20030214
MX 2003PA01824	A	20030604	MX 2003-PA1824	20030228
US 20040038827	A1	20040226	US 2003-363153	20030228
US 7084138	B2	20060801		

ZA 2003001774
PRIORITY APPLN. INFO.:

A 20040304

ZA 2003-1774

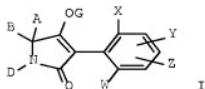
20030304

DE 2000-10043610
CN 2001-815123
WO 2001-EP9731

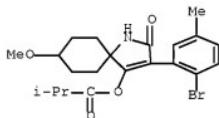
A 20000905
A3 20010823
W 20010823

OTHER SOURCE(S):
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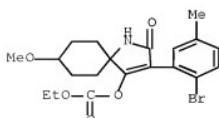
MARPAT 136:228368



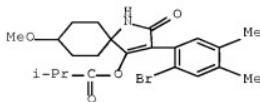
- AB The title compns. comprise cyclic ketoenoles I [X = halo, (halo)alkyl, (halo)alkoxy or cyano; W, Y, Z = H or X; A = H, (halo)alkyl, (halo)alkoxy, etc.; B = H or alkyl; D = H, (un)substituted (cyclo)alkyl, alkenyl or alkoxyalkyl, etc; ACD and ACD = ring; G = H, COR1, etc.; R1 = (halo)alkyl, (halo)alkenyl, etc.] and any of 22 known insecticides and acaricides.
- IT 382608-07-3D, mixts. containing 382608-08-4D, mixts. containing 382608-13-1D, mixts. containing
- RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)
(synergistic insecticides and acaricides)
- RN 382608-07-3 CAPLUS
- CN Propanoic acid, 2-methyl-, 3-(2-bromo-5-methylphenyl)-8-methoxy-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ester (CA INDEX NAME)



- RN 382608-08-4 CAPLUS
- CN Carbonic acid, 3-(2-bromo-5-methylphenyl)-8-methoxy-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ethyl ester (CA INDEX NAME)



RN 382608-13-1 CAPLUS
 CN Propanoic acid, 2-methyl-, 3-(2-bromo-4,5-dimethylphenyl)-8-methoxy-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ester (CA INDEX NAME)

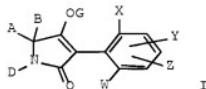


REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 32 OF 53 CAPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 2002:1/1603 CAPLUS Full-text
 DOCUMENT NUMBER: 136:212331
 TITLE: Synergistic insecticidal and acaricidal mixtures
 INVENTOR(S): Fischer, Reiner; Erdelen, Christoph
 PATENT ASSIGNEE(S): Bayer Aktiengesellschaft, Germany
 SOURCE: PCT Int. Appl., 70 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: German
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002017715	A1	20020307	WO 2001-EP9606	20010821
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
DE 10042736	A1	20020314	DE 2000-10042736	20000831
IN 2001MU00799	A	20050304	IN 2001-MU799	20010816
AU 2001091781	A	20020313	AU 2001-91781	20010821
EP 1322160	A1	20030702	EP 2001-971935	20010821
EP 1322160	B1	20050316		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
BR 2001013580	A	20030715	BR 2001-13580	20010821
HU 2003002949	A2	20040128	HU 2003-2949	20010821
HU 2003002949	A3	20040628		
JP 2004507474	T	20040311	JP 2002-522700	20010821
AT 290784	T	20050415	AT 2001-971935	20010821
PT 1322160	T	20050729	PT 2001-971935	20010821
ES 2238480	T3	20050901	ES 2001-971935	20010821
CN 1222213	C	20051012	CN 2001-818130	20010821
RU 2275025	C2	20060427	RU 2003-108864	20010821

AU 2001291781	B2	20060831	AU 2001-291781	20010821
KR 825222	B1	20080425	KR 2003-702445	20030220
US 20040044066	A1	20040304	US 2003-362652	20030224
US 7060692	B2	20060613		
MX 2003PA01682	A	20030604	MX 2003-PA1682	20030225
ZA 2003001615	A	20040227	ZA 2003-1615	20030227
PRIORITY APPLN. INFO.:			DE 2000-10042736	A 20000831
OTHER SOURCE(S):		MARPAT 136:212331	WO 2001-EP9606	W 20010821
GI				



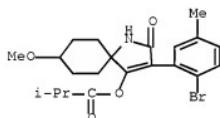
AB The title mixts. comprise cyclic ketenoles I [X = halo, (halo)alkyl, (halo)alkoxy or cyano; W, Y, Z = H or X; A = H, (halo)alkyl, (halo)alkoxyalkyl, etc.; B = H or alkyl; D = H, (cyclo)alkyl, alkenyl, alkoxyalkyl, etc.; ACB and ACD = ring; G = H, CO2Et, iso-PrCO, etc.] and any of 43 known insecticides and acaricides.

IT 382608-07-3D, mixts. containing 382608-08-4D, mixts. containing 382608-33-1D, mixts. containing

RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses) (synergistic insecticides and acaricides)

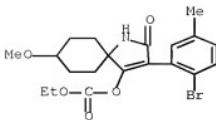
RN 382608-07-3 CAPLUS

CN Propanoic acid, 2-methyl-, 3-(2-bromo-5-methylphenyl)-8-methoxy-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ester (CA INDEX NAME)

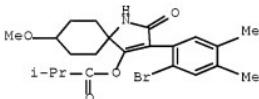


RN 382608-08-4 CAPLUS

CN Carbonic acid, 3-(2-bromo-5-methylphenyl)-8-methoxy-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ethyl ester (CA INDEX NAME)



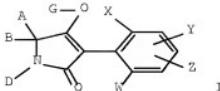
RN 382608-13-1 CAPLUS
 CN Propanoic acid, 2-methyl-, 3-(2-bromo-4,5-dimethylphenyl)-8-methoxy-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ester (CA INDEX NAME)



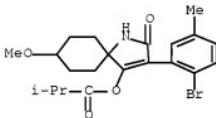
REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 33 OF 53 CAPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 2002:71795 CAPLUS [Full-text](#)
 DOCUMENT NUMBER: 136:114257
 TITLE: Synergistic insecticidal and acaricidal mixtures
 INVENTOR(S): Fischer, Reiner; Erdelen, Christoph
 PATENT ASSIGNEE(S): Bayer Aktiengesellschaft, Germany
 SOURCE: PCT Int. Appl., 57 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: German
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

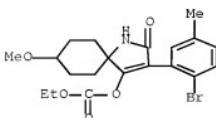
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002005648	A1	20020124	WO 2001-EP7854	20010709
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, IJ, TM, RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
DE 10035012	A1	20020131	DE 2000-10035012	20000719
PRIORITY APPLN. INFO.:			DE 2000-10035012	A 20000719
OTHER SOURCE(S): GI		MARPAT 136:114257		



- AB Mixts. containing cyclic keto enols I [X = halo, (halo)alkyl, (halo)alkoxy, or CN; W, Y, Z = H or X; A = H, (halo)alkyl, (halo)alkoxalkyl, (un)substituted cycloalkyl or heterocyclyl; B = H or alkyl; D = H, (un)substituted alkyl, alkenyl, alkoxyalkyl, cycloalkyl or heterocyclyl; G = H, COR, etc.; A and B or A and D may form part of a ring] and ≥1 compound chosen from among amitraz, buprofezin, pymetrozine, pyriproxyfen, triazamate and IKI 220 possess excellent insecticidal and acaricidal properties. Thus, 4-hydroxy-8-methoxy-3-(2,3,4,6-tetramethylphenyl)-1-azaspiro[4.5]dec-3-en-2-one + pymetrozin (1:1) synergistically controlled *Myzus persicae* on cabbage leaves.
- IT 382608-07-3D, mixts. containing 382608-08-4D, mixts. containing 382608-13-1D, mixts. containing
- RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses) (synergistic insecticidal and acaricidal mixts.)
- RN 382608-07-3 CAPLUS
- CN Propanoic acid, 2-methyl-, 3-(2-bromo-5-methylphenyl)-8-methoxy-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ester (CA INDEX NAME)

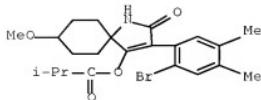


- RN 382608-08-4 CAPLUS
- CN Carbonic acid, 3-(2-bromo-5-methylphenyl)-8-methoxy-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ethyl ester (CA INDEX NAME)



- RN 382608-13-1 CAPLUS
- CN Propanoic acid, 2-methyl-, 3-(2-bromo-4,5-dimethylphenyl)-8-methoxy-2-oxo-

1-azaspiro[4.5]dec-3-en-4-yl ester (CA INDEX NAME)



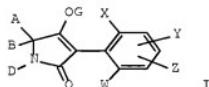
REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE REFORMAT

L3 ANSWER 34 OF 53 CAPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 2002:10205 CAPLUS [Full-text](#)
 DOCUMENT NUMBER: 136:49745
 TITLE: Synergistic insecticidal and acaricidal compositions.
 INVENTOR(S): Fischer, Reiner; Erdelen, Christoph
 PATENT ASSIGNEE(S): Bayer A.-G., Germany
 SOURCE: PCT Int. Appl., 63 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: German
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

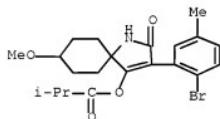
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002000025	A1	20020103	WO 2001-EP6841	20010618
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KE, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
DE 10036896	A1	20020110	DE 2000-10036896	20000728
IN 2001MU00553	A	20050304	IN 2001-MU553	20010615
BR 2001012070	A	20030401	BR 2001-12070	20010618
EP 1298995	A1	20030409	EP 2001-943517	20010618
EP 1298995	B1	20060208		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
JP 2004501169	T	20040115	JP 2002-504819	20010618
HU 2004000493	A2	20040830	HU 2004-493	20010618
CN 1226925	C	20051116	CN 2001-814884	20010618
AT 317223	T	20060215	AT 2001-943517	20010618
ES 2256257	T3	20060716	ES 2001-943517	20010618
AU 2001266075	B2	20070118	AU 2001-266075	20010618
RU 2291617	C2	20070120	RU 2003-102605	20010618
EG 22779	A	20030831	EG 2001-698	20010627
KR 797006	B1	20080122	KR 2002-716904	20021212
US 20030148999	A1	20030807	US 2002-312149	20021219
US 6994866	B2	20060207		

MX 2002PA12937	A	20040730	MX 2002-PA12937	20021219
ZA 2002010353	A	20040126	ZA 2002-10353	20021220
US 20060501386	A1	20060309	US 2005-242160	20051003
PRIORITY APPLN. INFO.:			DE 2000-10031765	A 20000629
			DE 2000-10036896	A 20000728
			WO 2001-EP6841	W 20010618
			US 2002-312149	A3 20021219

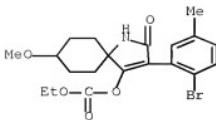
OTHER SOURCE(S) : MARPAT 136:49745
GI



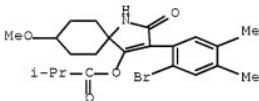
- AB The title compns. comprise a cyclic ketoenol I [X = halo, (halo)alkyl, (halo)alkoxy or cyano; W, Y, Z = H or X; A = H, (halo)alkyl, (halo)alkoxyalkyl, (un)substituted cycloalkyl or heterocyclyl; B = H or alkyl; D = H, (un)substituted alkyl, alkenyl, alkoxyalyl, cycloalkyl or heterocyclyl; ACB and ACD = ring; G = H, C(O)R, etc; R = (halo)alkyl, (halo)alkenyl, (halo)alkoxyalkyl, (halo)alkylthioalkyl, etc.] and any a pyrethroid, such as acrinathrin, alpha-cypermethrin, betacyfluthrin, cyhalothrin, cypermethrin, deltamethrin and esfenvalerate.
- IT 382608-07-3D, mixts. with pyrethroids 382608-08-4D, mixts. with pyrethroids 382608-13-1D, mixts. with pyrethroids
RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)
(synergistic insecticidal and acaricidal compns.)
- RN 382608-07-3 CAPLUS
- CN Propanoic acid, 2-methyl-, 3-(2-bromo-5-methylphenyl)-8-methoxy-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ester (CA INDEX NAME)



- RN 382608-08-4 CAPLUS
- CN Carbonic acid, 3-(2-bromo-5-methylphenyl)-8-methoxy-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ethyl ester (CA INDEX NAME)



RN 382608-13-1 CAPLUS
 CN Propanoic acid, 2-methyl-, 3-(2-bromo-4,5-dimethylphenyl)-8-methoxy-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ester (CA INDEX NAME)



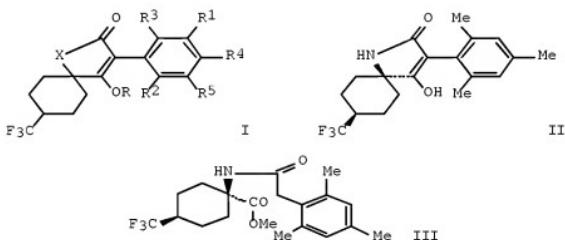
REFERENCE COUNT: 1 THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 35 OF 53 CAPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 2001:247313 CAPLUS [Full-text](#)
 DOCUMENT NUMBER: 134:280721
 TITLE: Preparation of trifluoromethyl spirocyclic ketoenols for use as pesticides and herbicides
 INVENTOR(S): Fischer, Reiner; Graff, Alan; Bretschneider, Thomas; Erdelen, Christoph; Drewes, Mark Wilhelm; Feucht, Dieter
 PATENT ASSIGNEE(S): Bayer Aktiengesellschaft, Germany
 SOURCE: PCT Int. Appl., 144 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: German
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001023354	A2	20010405	WO 2000-EP9270	20000919
WO 2001023354	A3	20020228		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
DE 19946625	A1	20010405	DE 1999-19946625	19990929

CA 2384501	A1	20010405	CA 2000-2384501	20000919
BR 2000014352	A	20020611	BR 2000-14352	20000919
EP 1220841	A2	20020710	EP 2000-967741	20000919
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL				
JP 2003510308	T	20030318	JP 2001-526508	20000919
CN 1207281	C	20050622	CN 2000-816420	20000919
CN 1680298	A	20051012	CN 2005-10006469	20000919
US 6861391	B1	20050301	US 2002-88979	20020326
MX 2002PA03272	A	20021031	MX 2002-PA3272	20020327
PRIORITY APPLN. INFO.: DE 1999-19946625 A 19990929				
CN 2000-816420 A3 20000919				
WO 2000-EP5270 W 20000919				

OTHER SOURCE(S): MARPAT 134:280721
GI



AB Spirocyclic ketoenols, such as I [$X = O, NH$; $R = H, acyl, alkyloxycarbonyl, etc.$; $R1 = H, halogen, alkyl, alkoxy$; $R2 = H, CN, NO2, Ph, PhO, PhS, alkyl, alkenyl, alkynyl, alkoxy, haloalkyl, haloalkoxy, phenylalkoxy, phenylalkylthio; R3 = H, CN, NO2, Ph, PhS, PhO, alkyl, alkenyl, alkynyl, alkoxy, haloalkyl, haloalkoxy, phenylalkoxy, phenylalkylthio; R4 = H, CN, NO2, halogen, alkyl, alkoxy, haloalkyl, haloalkoxy]; $R5 = H, CN, NO2, OH, PhS, PhO, halogen, alkyl, alkoxy, haloalkyl, haloalkoxy, heteroaryloxy, phenylalkoxy, phenylalkylthio]$, were prepared for use as pesticides and herbicides. Thus, spirocyclic ketoenol II was prepared in 74% yield by intramol. cyclocondensation of ester III, which was prepared starting from 4-(trifluoromethyl)cyclohexanone and mesityleneacetyl chloride. The prepared spirocyclic ketoenols were tested for insecticidal activity against species, such as *Myzus persicae*, *Aphis gossypi*, and *Tetranychus urticae*.$

IT 332346-13-7P

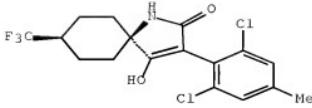
RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); RCT (Reactant); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); RACT (Reaction); YBA (Yield).

(Reactant or reagent); USES (Uses)
(preparation of trifluoromethyl spirocyclic ketoenols for use as pesticides
and herbicides)

RN 332348-13-7 CAPLUS

CN 1-Azaspiro[4.5]dec-3-en-2-one, 3-(2,6-dichloro-4-methylphenyl)-4-hydroxy-8-(trifluoromethyl)-, (5a,8a)- (CA INDEX NAME)

Relative stereochemistry.



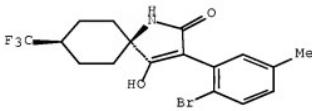
IT 332348-28-4P 332348-60-4P

RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses) (preparation of trifluoromethyl spirocyclic ketoenols for use as pesticides and herbicides)

RN 332348-28-4 CAPLUS

CN 1-Azaspido[4.5]dec-3-en-2-one, 3-(2-bromo-5-methylphenyl)-4-hydroxy-8-(trifluoromethyl)-, (5a,8a)- (CA INDEX NAME)

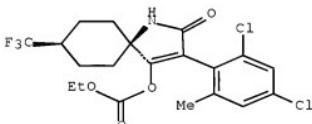
Relative stereochemistry.



RN 332348-60-4 CAPLUS

CN Carbonic acid, cis-3-(2,4-dichloro-6-methylphenyl)-2-oxo-8-(trifluoromethyl)-1-azaspido[4.5]dec-3-en-4-yl ethyl ester (9CI) (CA INDEX NAME)

Relative stereochemistry.



REFERENCE COUNT:

6

THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 36 OF 53 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1999:708738 CAPLUS [Full-text](#)

DOCUMENT NUMBER: 131:310546

TITLE: Arylphenyl-substituted cyclic keto enols as

INVENTOR(S): insecticides and acaricides
 Lieb, Folker; Fischer, Reiner; Graff, Alan; Schneider,
 Udo; Bretschneider, Thomas; Erdelen, Christoph;
 Andersch, Wolfram; Drewes, Mark Wilhelm; Dollinger,
 Markus; Wetcholowsky, Ingo; Feucht, Dieter; Pontzen,
 Rolf; Myers, Randy Allen

PATENT ASSIGNEE(S): Bayer A.-G., Germany
 SOURCE: PCT Int. Appl., 245 pp.

DOCUMENT TYPE: Patent

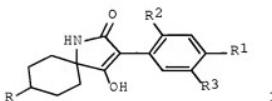
LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9955673	A1	19991104	WO 1999-EP2488	19990414
W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, US, UZ, VN, YU, ZA, ZW				
RW: GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
DE 199818732	A1	19991028	DE 1998-199818732	19980427
AU 9934215	A	19991116	AU 1999-34215	19990414
BR 9910034	A	20001226	BR 1999-10034	19990414
EP 1075465	A1	20010214	EP 1999-915759	19990414
R: FR				
JP 2002513002	T	20020508	JP 2000-545833	19990414
US 6451843	B1	20020917	US 2001-673907	20010102
US 20030096806	A1	20030522	US 2002-192361	20020710
PRIORITY APPLN. INFO.:			DE 1998-199818732	A 19980427
			WO 1999-EP2488	W 19990414
			US 2001-673907	A3 20010102

OTHER SOURCE(S): MARPAT 131:310546
 GI



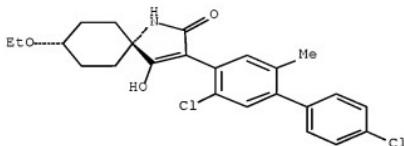
AB Title compds. were prepared for use as insecticides and acaricides. Thus, pyrrolinone I [R = Me, R1 = 4-ClC6H4, R2 = Me, R3 = Cl] was prepared by treating I [R1 = Br] with 4-ClC6H4B(OH)2. I [R = OEt, R1 = 4-ClC6H4, R2 = Cl, R3 = Me] at 1% gave 90% kill of Phaedon cochleariae and at 0.1% gave 95% kill of Tetranychus urticae.

IT 247901-91-3P

RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); RCT (Reactant); SPN

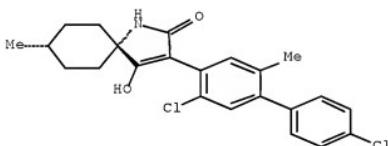
(Synthetic preparation); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)
preparation of biphenylpyrrolinones as insecticides and acaricides)
RN 247901-91-3 CAPLUS
CN 1-Azaspiro[4.5]dec-3-en-2-one, 3-(4',5-dichloro-2-methyl[1,1'-biphenyl]-4-yl)-8-ethoxy-4-hydroxy-, (5a,8a)- (CA INDEX NAME)

Relative stereochemistry.



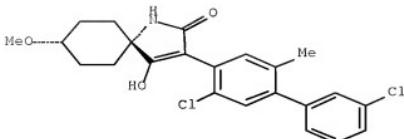
IT 247901-92-4P
RL: AGR (Agricultural use); RCT (Reactant); SPN (Synthetic preparation);
BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent);
USES (Uses)
preparation of biphenylpyrrolinones as insecticides and acaricides)
RN 247901-92-4 CAPLUS
CN 1-Azaspiro[4.5]dec-3-en-2-one, 3-(4',5-dichloro-2-methyl[1,1'-biphenyl]-4-yl)-4-hydroxy-8-methyl-, (5a,8a)- (CA INDEX NAME)

Relative stereochemistry.



IT 247901-94-6P 247901-95-7P 247901-96-8P
247902-05-2P 247902-06-3P 247902-07-4P
247902-09-5P 247902-09-6P
RL: AGR (Agricultural use); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
preparation of biphenylpyrrolinones as insecticides and acaricides)
RN 247901-94-6 CAPLUS
CN 1-Azaspiro[4.5]dec-3-en-2-one, 3-(3',5-dichloro-2-methyl[1,1'-biphenyl]-4-yl)-4-hydroxy-8-methoxy-, (5a,8a)- (CA INDEX NAME)

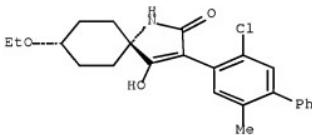
Relative stereochemistry.



RN 247901-95-7 CAPLUS

CN 1-Azaspiro[4.5]dec-3-en-2-one, 3-(5-chloro-2-methyl[1,1'-biphenyl]-4-yl)-8-ethoxy-4-hydroxy-, (5 α ,8 α)- (CA INDEX NAME)

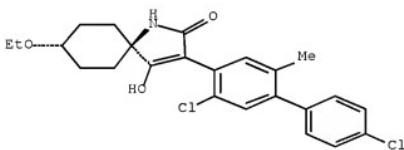
Relative stereochemistry.



RN 247901-96-8 CAPLUS

CN 1-Azaspiro[4.5]dec-3-en-2-one, 3-(4',5-dichloro-2-methyl[1,1'-biphenyl]-4-yl)-8-ethoxy-4-hydroxy-, (5 α ,8 β)- (CA INDEX NAME)

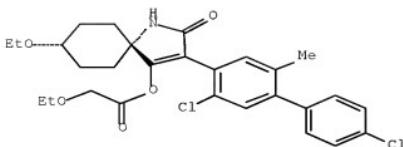
Relative stereochemistry.



RN 247902-05-2 CAPLUS

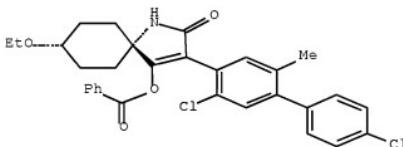
CN Acetic acid, 2-ethoxy-, (5 α ,8 α)-3-(4',5-dichloro-2-methyl[1,1'-biphenyl]-4-yl)-8-ethoxy-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ester (CA INDEX NAME)

Relative stereochemistry.



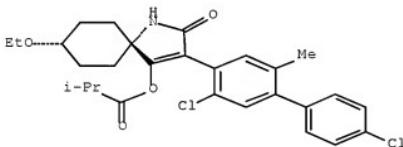
RN 247902-06-3 CAPLUS
 CN 1-Azaspiro[4.5]dec-3-en-2-one, 4-(benzoyloxy)-3-(4',5-dichloro-2-methyl[1,1'-biphenyl]-4-yl)-8-ethoxy-, (5a,8a)- (CA INDEX NAME)

Relative stereochemistry.



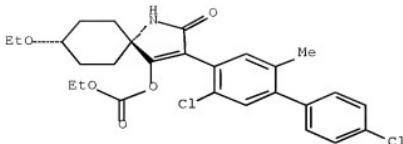
RN 247902-07-4 CAPLUS
 CN Propanoic acid, 2-methyl-, (5a,8a)-3-(4',5-dichloro-2-methyl[1,1'-biphenyl]-4-yl)-8-ethoxy-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ester (CA INDEX NAME)

Relative stereochemistry.



RN 247902-08-5 CAPLUS
 CN Carbonic acid, cis-3-(4',5-dichloro-2-methyl[1,1'-biphenyl]-4-yl)-8-ethoxy-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ethyl ester (9CI) (CA INDEX NAME)

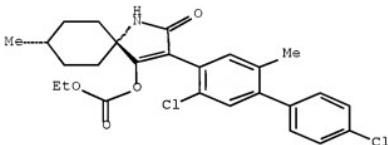
Relative stereochemistry.



RN 247902-09-6 CAPLUS

CN Carbonic acid, cis-3-(4',5-dichloro-2-methyl[1,1'-biphenyl]-4-yl)-8-methyl-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ethyl ester (9CI) (CA INDEX NAME)

Relative stereochemistry.



REFERENCE COUNT: 11 THERE ARE 11 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 37 OF 53 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1999:626173 CAPLUS [Full-text](#)

DOCUMENT NUMBER: 131:243180

TITLE: Preparation of arylketenols as pesticides and herbicides.

INVENTOR(S): Lieb, Folker; Fischer, Reiner; Graff, Alan; Schneider, Udo; Bretschneider, Thomas; Erdelen, Christoph; Andersch, Wolfram; Drewes, Mark Wilhelm; Dollinger, Markus; Wetcholowsky, Ingo; Myers, Randy Allen

PATENT ASSIGNEE(S): Bayer Aktiengesellschaft, Germany

SOURCE: PCT Int. Appl., 267 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: German

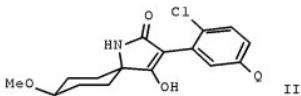
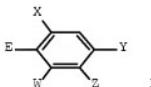
FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9948869	A1	19990930	WO 1999-EP1787	19990318
W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW RW: GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK,				

ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG			
DE 19813354	A1	19990930	DE 1998-19813354
CA 2325526	A1	19990930	CA 1999-2325526
AU 9934147	A	19991018	AU 1999-34147
AU 751256	B2	20020808	
BR 9909143	A	20001205	BR 1999-9143
TR 200002752	T2	20001221	TR 2000-2752
EP 1066258	A1	20010110	EP 1999-915653
EP 1066258	B1	20051214	
R: AT, BE, CH, DE, DK, ES, FR, GB, IT, LI, NL			
JP 2002507599	T	20020312	JP 2000-537852
CN 1206218	C	20050615	CN 1999-806593
AT 312818	T	20051215	AT 1999-915653
ES 2252940	T3	20060516	ES 1999-915653
IN 1999DE00620	A	20070119	IN 1999-DE620
MX 2000PA09359	A	20010419	MX 2000-PA9359
US 6458965	B1	20021001	US 2001-646722
US 20030073851	A1	20030417	US 2002-142325
US 6693092	B2	20040217	
US 20040127365	A1	20040701	US 2003-730556
US 6806264	B2	20041019	20031208
PRIORITY APPLN. INFO.:			
		DE 1998-19813354	A 19980326
		WO 1999-EP1787	W 19990318
		US 2001-646722	A3 20010102
		US 2002-142325	A3 20020509

OTHER SOURCE(S): MARPAT 131:243180
GI



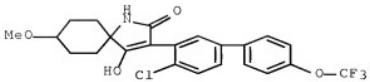
AB Title compds. [I; X = halo, alkyl, alkoxy, alkenyloxy, alkylthio, alkylsulfinyl, alkylsulfonyl, haloalkyl, haloalkoxy, haloalkenyloxy, NO₂, cyano, (substituted) Ph, PhO, PhS, phenylalkoxy, phenylalkylthio; Z = (substituted) cycloalkyl, aryl, heteroaryl; W, Z = H, halo, alkyl, alkoxy, alkenyloxy, haloalkyl, haloalkoxy, haloalkenyloxy, NO₂, cyano; E = specified (substituted) dioxopyrrolyl, dioxofuryl, dioxothienyl, dioxopyrazolyl, dioxopyranyl, dioxocyclopentyl, etc., residues], were prepared Thus, II (Q = Br) was stirred with 4-trifluoromethoxyphenylboronic acid, Pd(PPh₃)₄, and Na₂CO₃ in dimethoxyethane/H₂O at 80° to give II (Q = 4-C₆H₄OCF₃). I at 0.1% gave 95-100% kill of *Myzus persicae* on cabbage leaves.

IT 244158-66-5P 244158-75-6P 244158-76-7P
244158-78-9P 244158-79-0P

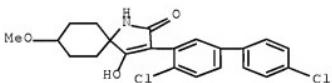
RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses) (preparation of arylketoenols as pesticides and herbicides)

RN 244158-66-5 CAPLUS

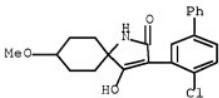
CN 1-Azaspiro[4.5]dec-3-en-2-one, 3-[4-chloro-4'-(trifluoromethoxy){1,1'-biphenyl}-3-yl]-4-hydroxy-8-methoxy- (CA INDEX NAME)



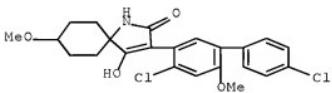
RN 244158-75-6 CAPLUS
CN 1-Azaspido[4.5]dec-3-en-2-one, 3-(4,4'-dichloro[1,1'-biphenyl]-3-yl)-4-hydroxy-8-methoxy- (CA INDEX NAME)



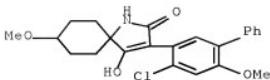
RN 244158-76-7 CAPLUS
CN 1-Azaspido[4.5]dec-3-en-2-one, 3-(4-chloro[1,1'-biphenyl]-3-yl)-4-hydroxy-8-methoxy- (CA INDEX NAME)



RN 244158-78-9 CAPLUS
CN 1-Azaspido[4.5]dec-3-en-2-one, 3-(4,4'-dichloro-6-methoxy[1,1'-biphenyl]-3-yl)-4-hydroxy-8-methoxy- (CA INDEX NAME)



RN 244158-79-0 CAPLUS
CN 1-Azaspido[4.5]dec-3-en-2-one, 3-(4-chloro-6-methoxy[1,1'-biphenyl]-3-yl)-4-hydroxy-8-methoxy- (CA INDEX NAME)

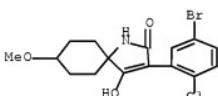


IT 244159-52-2

RL: RCT (Reactant); RACT (Reactant or reagent)
(preparation of arylketoenols as pesticides and herbicides)

RN 244159-52-2 CAPLUS

CN 1-Azaspiro[4.5]dec-3-en-2-one, 3-(5-bromo-2-chlorophenyl)-4-hydroxy-8-methoxy- (CA INDEX NAME)



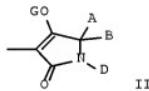
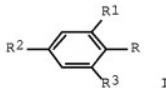
REFERENCE COUNT: 11 THERE ARE 11 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 38 OF 53 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 1999:566021 CAPLUS [Full-text](#)
DOCUMENT NUMBER: 131:199616
TITLE: Preparation of cyclic ketoenols as herbicides and pesticides
INVENTOR(S): Lieb, Folker; Fischer, Reiner; Graff, Alan; Schneider, Udo; Bretschneider, Thomas; Erdelen, Christoph; Andersch, Wolfram; Drewes, Mark-Wilhelm; Dollinger, Markus; Wetcholowsky, Ingo; Myers, Randy Allen
PATENT ASSIGNEE(S): Bayer Aktiengesellschaft, Germany
SOURCE: PCT Int. Appl., 264 pp.
CODEN: PIXDZ2
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9943649	A1	19990902	WO 1999-EP1029	19990217
W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW				
RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
DE 19808261	A1	19991028	DE 1998-19808261	19980227
CA 2322158	A1	19990902	CA 1999-2322158	19990217

CA 2322158	C	20080812		
AU 9925231	A	19990915	AU 1999-25231	19990217
AU 749786	B2	20020704		
BR 9909243	A	20001114	BR 1999-9243	19990217
EP 1056717	A1	20001206	EP 1999-904881	19990217
EP 1056717	B1	20050720		
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JP 2002504538	T	20020212	JP 2000-533407	19990217
AT 299864	T	20050815	AT 1999-904881	19990217
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ZA 9901568	A	19990827	ZA 1999-1568	19990226
TW 244480	B	20051201	TW 1999-88102895	19990226
IN 1999DE00619	A	20070223	IN 1999-DE519	19990421
MX 2000PA08293	A	20000827	MX 2000-PA8293	20000824
US 6417370	B1	20020709	US 2000-623016	20001023
US 20020188136	A1	20021212	US 2002-137763	20020502
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US 20040167031	A1	20040826	US 2004-777528	20040212
US 7105471	B2	20060912		
US 20060122061	A1	20060608	US 2006-330601	20060112
US 7288676	B2	20071030		
US 20080081807	A1	20080403	US 2007-901471	20070917
PRIORITY APPLN. INFO.:			DE 1998-19808261	A 19980227
			WO 1999-EP1029	W 19990217
			US 2000-623016	A3 20001023
			US 2002-137763	A3 20020502
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			US 2006-330601	A3 20060112

OTHER SOURCE(S): MARPAT 131:199616
GI

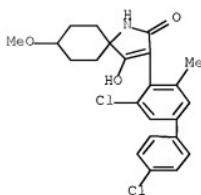


AB Title compds. [I; R = enolic oxo(hetero)cyclic group, e.g., oxopyrrolinyl group II; A = H, (halo)alk(en)yl, (hetero)aryl, etc.; B = H or (alkoxy)alkyl; AB = atoms to complete a ring; D = H, alk(en)yl, (hetero)aryl, etc.; AD = atoms to complete a ring; G = H or acyl; R1 = halo, alkyl, alkoxy, phenyl(oxyl), etc.; R2 = (un)substituted cycloalkyl or -(hetero)aryl; R3 = H, halo, alkyl, alkoxy, etc.] were prepared. Thus, I (R = group II, A = CHMe₂, B = R1 = Me, D = G = H, R2 = Et) (III; R2 = Br) was condensed with 4-ClC₆H₄B(OH)₂ to give III (R2 = C₆H₄Cl-4). Data for biol. activity of I were given.

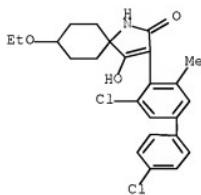
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241144-19-4P 241144-20-7P 241144-26-3P
241144-27-4P 241144-28-5P 241144-29-6P

RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses) (preparation of cyclic ketoenols as herbicides and pesticides)

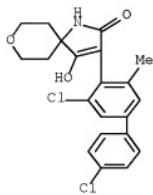
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RN 241143-93-1 CAPLUS
CN 1-Azaspiro[4.5]dec-3-en-2-one, 3-(3,4'-dichloro-5-methyl[1,1'-biphenyl]-4-yl)-8-ethoxy-4-hydroxy- (CA INDEX NAME)

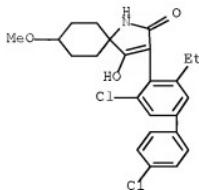


RN 241143-97-5 CAPLUS
CN 8-Oxa-1-azaspiro[4.5]dec-3-en-2-one,
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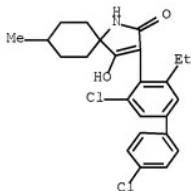


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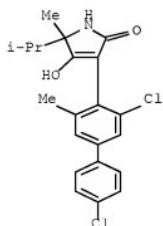
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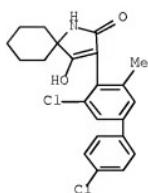
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CN 1-Azaspiro[4.5]dec-3-en-2-one, 3-(3,4'-dichloro-5-ethyl[1,1'-biphenyl]-4-yl)-4-hydroxy-8-methyl- (CA INDEX NAME)



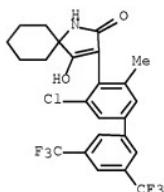
RN 241144-01-4 CAPLUS
CN 2H-Pyrrol-2-one, 3-(3,4'-dichloro-5-methyl[1,1'-biphenyl]-4-yl)-1,5-dihydro-4-hydroxy-5-methyl-5-(1-methylethyl)- (CA INDEX NAME)



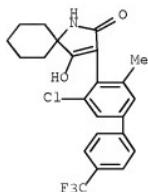
RN 241144-16-1 CAPLUS
CN 1-Azaspiro[4.5]dec-3-en-2-one, 3-(3,4'-dichloro-5-methyl[1,1'-biphenyl]-4-yl)-4-hydroxy- (CA INDEX NAME)



RN 241144-17-2 CAPLUS
CN 1-Azaspiro[4.5]dec-3-en-2-one, 3-[3-chloro-5-methyl-3',5'-bis(trifluoromethyl)[1,1'-biphenyl]-4-yl]-4-hydroxy- (CA INDEX NAME)

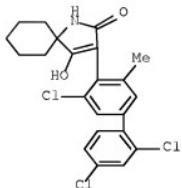


RN 241144-18-3 CAPLUS
CN 1-Azaspiro[4.5]dec-3-en-2-one, 3-[3-chloro-5-methyl-4'-(trifluoromethyl)[1,1'-biphenyl]-4-yl]-4-hydroxy- (CA INDEX NAME)



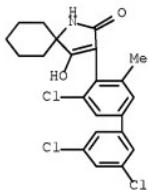
RN 241144-19-4 CAPLUS

CN 1-Azaspiro[4.5]dec-3-en-2-one, 4-hydroxy-3-(2',3,4'-trichloro-5-methyl[1,1'-biphenyl]-4-yl)- (CA INDEX NAME)



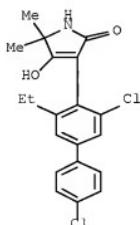
RN 241144-20-7 CAPLUS

CN 1-Azaspiro[4.5]dec-3-en-2-one, 4-hydroxy-3-(3,3',5'-trichloro-5-methyl[1,1'-biphenyl]-4-yl)- (CA INDEX NAME)

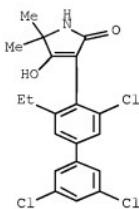


RN 241144-26-3 CAPLUS

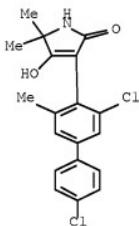
CN 2H-Pyrrol-2-one, 3-(3,4'-dichloro-5-ethyl[1,1'-biphenyl]-4-yl)-1,5-dihydro-4-hydroxy-5,5-dimethyl- (CA INDEX NAME)



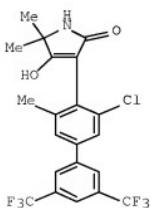
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CN 2H-Pyrrol-2-one, 1,5-dihydro-4-hydroxy-5,5-dimethyl-3-(3,3',5'-trichloro-5-ethyl[1,1'-biphenyl]-4-yl)- (CA INDEX NAME)



RN 241144-28-5 CAPLUS
CN 2H-Pyrrol-2-one, 3-(3,4'-dichloro-5-methyl[1,1'-biphenyl]-4-yl)-1,5-dihydro-4-hydroxy-5,5-dimethyl- (CA INDEX NAME)



RN 241144-29-6 CAPLUS
CN 2H-Pyrrol-2-one, 3-[3-chloro-5-methyl-3',5'-bis(trifluoromethyl)[1,1'-biphenyl]-4-yl]-1,5-dihydro-4-hydroxy-5,5-dimethyl- (CA INDEX NAME)



REFERENCE COUNT: 9 THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 39 OF 53 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 1999:317249 CAPLUS Full-text
DOCUMENT NUMBER: 130:338027
TITLE: Preparation of
3,5-dioxo-4-phenylspiro[3-pyrroline-2,4'-
tetrahydropyran] enols as herbicides and pesticides
INVENTOR(S): Hagemann, Hermann; Fischer, Reiner; Erdelen,
Christoph; Wachendorff-Neumann, Ulrike; Schneider,
Udo; Andersch, Wolfram
PATENT ASSIGNEE(S): Bayer A.-G., Germany
SOURCE: Ger. Offen., 50 pp.
CODEN: GWXXBX
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

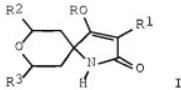
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 19749720	A1	19990512	DE 1997-19749720	19971111
WO 9924437	A1	19990520	WO 1998-EP6866	19981029
W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW				
RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
AU 9913371	A	19990531	AU 1999-13371	19981029
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CN 1115344	C	20030723	CN 1998-812993	19981029
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EP 1508560	B1	20081008		
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ES 2244097	T3	20051201	ES 1998-956894	19981029
AT 410403	T	20081015	AT 2004-28198	19981029
ZA 9810249	A	19990517	ZA 1998-10249	19981110
US 6608211	B1	20030819	US 2000-530883	20000508
US 20030228984	A1	20031211	US 2003-404723	20030401
US 6670488	B2	20031230		
US 20040102327	A1	20040527	US 2003-701820	20031105
US 6900341	B2	20050531		
US 20050187111	A1	20050825	US 2005-103107	20050411
US 7109370	B2	20060919		
PRIORITY APPLN. INFO.:				
	DE 1997-19749720		A 19971111	
	EP 1998-956894		A3 19981029	
	WO 1998-EP6866		W 19981029	
	US 2000-530883		A3 20000508	

OTHER SOURCE(S):
GI

MARPAT 130:338027

US 2003-404723
US 2003-701820

A3 20030401
A3 20031105



AB Title compds. [I; R = H, alkanoyl, Bz, acyl, etc.; R1 = (un)substituted Ph; R2 = alkyl or (un)substituted Ph; R3 = H or alkyl] were prepared. Thus, ClCH2CH2COCl was condensed with CH2:CHMe and the product cyclized to give 2-methyl-4-tetrahydropyranone which was treated with (NH4)2CO3 and the product hydrolyzed to give 4-amino-2-methyltetrahydropyran-4-carboxylic acid. The latter was esterified and the product amidated by mesitylacetyl chloride to give, after Dieckmann condensation, I (R = R3 = H, R1 = mesityl, R2 = Me). Data for biol. activity of I were given.

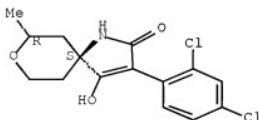
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224560-26-3P

RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses) (preparation of 3,5-dioxa-4-phenylspiro[3-pyrroline-2,4'-tetrahydropyran] enols as herbicides and pesticides)

RN 224559-50-6 CAPLUS

CN 8-Oxa-1-azaspiro[4.5]dec-3-en-2-one,
3-(2,4-dichlorophenyl)-4-hydroxy-7-methyl-, (5R,7S)-rel- (CA INDEX NAME)

Relative stereochemistry.

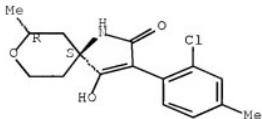


RN 224559-52-8 CAPLUS

CN 8-Oxa-1-azaspiro[4.5]dec-3-en-2-one,
3-(2-chloro-4-methylphenyl)-4-hydroxy-7-methyl-, (5R,7S)-rel- (CA INDEX

NAME)

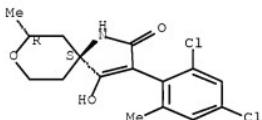
Relative stereochemistry.



RN 224559-53-9 CAPLUS

CN 8-Oxa-1-azaspiro[4.5]dec-3-en-2-one,
3-(2,4-dichloro-6-methylphenyl)-4-hydroxy-7-methyl-, (5R,7S)-rel- (CA
INDEX NAME)

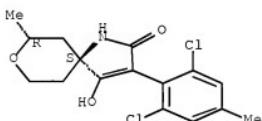
Relative stereochemistry.



RN 224559-55-1 CAPLUS

CN 8-Oxa-1-azaspiro[4.5]dec-3-en-2-one,
3-(2,6-dichloro-4-methylphenyl)-4-hydroxy-7-methyl-, (5R,7S)-rel- (CA
INDEX NAME)

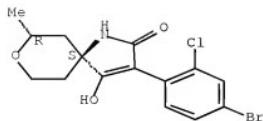
Relative stereochemistry.



RN 224559-61-9 CAPLUS

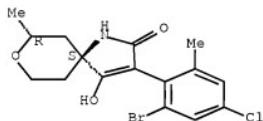
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3-(4-bromo-2-chlorophenyl)-4-hydroxy-7-methyl-, (5R,7S)-rel- (CA INDEX
NAME)

Relative stereochemistry.



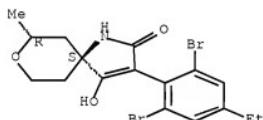
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Relative stereochemistry.



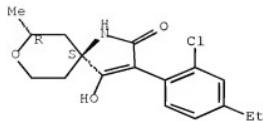
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Relative stereochemistry.



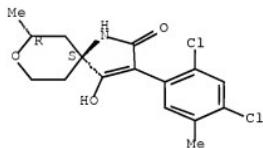
RN 224559-67-5 CAPLUS
 CN 8-Oxa-1-azaspiro[4.5]dec-3-en-2-one,
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Relative stereochemistry.



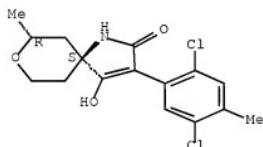
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 INDEX NAME)

Relative stereochemistry.



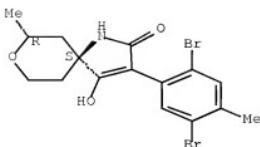
RN 224559-71-1 CAPLUS
 CN 8-Oxa-1-azaspiro[4.5]dec-3-en-2-one,
 3-(2,5-dichloro-4-methylphenyl)-4-hydroxy-7-methyl-, (5R,7S)-rel- (CA
 INDEX NAME)

Relative stereochemistry.



RN 224559-73-3 CAPLUS
 CN 8-Oxa-1-azaspiro[4.5]dec-3-en-2-one,
 3-(2,5-dibromo-4-methylphenyl)-4-hydroxy-7-methyl-, (5R,7S)-rel- (CA
 INDEX NAME)

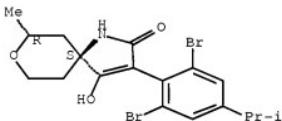
Relative stereochemistry.



RN 224559-75-5 CAPLUS

CN 8-Oxa-1-azaspiro[4.5]dec-3-en-2-one,
3-[2,6-dibromo-4-(1-methylethyl)phenyl]-4-hydroxy-7-methyl-, (5R,7S)-rel-
(CA INDEX NAME)

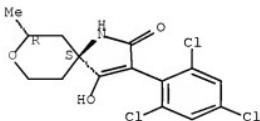
Relative stereochemistry.



RN 224559-76-6 CAPLUS

CN 8-Oxa-1-azaspiro[4.5]dec-3-en-2-one,
4-hydroxy-7-methyl-3-(2,6-trichlorophenyl)-, (5R,7S)-rel- (CA INDEX
NAME)

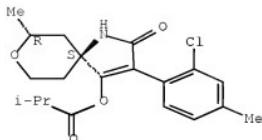
Relative stereochemistry.



RN 224559-83-5 CAPLUS

CN Propanoic acid, 2-methyl-, (5S,7R)-3-(2-chloro-4-methylphenyl)-7-methyl-2-oxo-8-oxa-1-azaspiro[4.5]dec-3-en-4-yl ester, rel- (CA INDEX NAME)

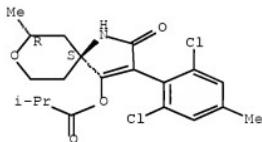
Relative stereochemistry.



RN 224559-84-6 CAPLUS

CN Propanoic acid, 2-methyl-, (5S,7R)-3-(2,6-dichloro-4-methylphenyl)-7-methyl-2-oxo-8-oxa-1-azaspiro[4.5]dec-3-en-4-yl ester, rel- (CA INDEX NAME)

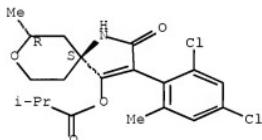
Relative stereochemistry.



RN 224559-85-7 CAPLUS

CN Propanoic acid, 2-methyl-, (5S,7R)-3-(2,4-dichloro-6-methylphenyl)-7-methyl-2-oxo-8-oxa-1-azaspiro[4.5]dec-3-en-4-yl ester, rel- (CA INDEX NAME)

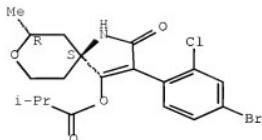
Relative stereochemistry.



RN 224559-90-4 CAPLUS

CN Propanoic acid, 2-methyl-, (5S,7R)-3-(4-bromo-2-chlorophenyl)-7-methyl-2-oxo-8-oxa-1-azaspiro[4.5]dec-3-en-4-yl ester, rel- (CA INDEX NAME)

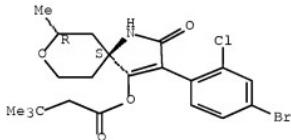
Relative stereochemistry.



RN 224559-91-5 CAPLUS

CN Butanoic acid, 3,3-dimethyl-, (5S,7R)-3-(4-bromo-2-chlorophenyl)-7-methyl-2-oxo-8-oxa-1-azaspiro[4.5]dec-3-en-4-yl ester, rel- (CA INDEX NAME)

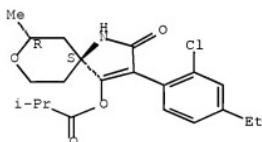
Relative stereochemistry.



RN 224559-97-1 CAPLUS

CN Propanoic acid, 2-methyl-, (5S,7R)-3-(2-chloro-4-ethylphenyl)-7-methyl-2-oxo-8-oxa-1-azaspiro[4.5]dec-3-en-4-yl ester, rel- (CA INDEX NAME)

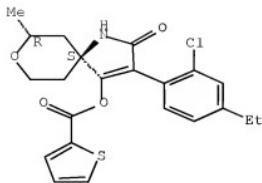
Relative stereochemistry.



RN 224559-98-2 CAPLUS

CN 2-Thiophencarboxylic acid, (5S,7R)-3-(2-chloro-4-ethylphenyl)-7-methyl-2-oxo-8-oxa-1-azaspiro[4.5]dec-3-en-4-yl ester, rel- (CA INDEX NAME)

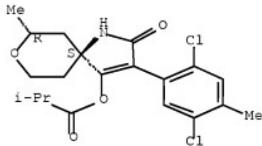
Relative stereochemistry.



RN 224560-04-7 CAPLUS

CN Propanoic acid, 2-methyl-, (5S,7R)-3-(2,5-dichloro-4-methylphenyl)-7-methyl-2-oxo-8-oxa-1-azaspiro[4.5]dec-3-en-4-yl ester, rel- (CA INDEX NAME)

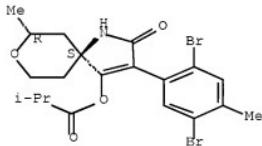
Relative stereochemistry.



RN 224560-06-9 CAPLUS

CN Propanoic acid, 2-methyl-, (5S,7R)-3-(2,5-dibromo-4-methylphenyl)-7-methyl-2-oxo-8-oxa-1-azaspiro[4.5]dec-3-en-4-yl ester, rel- (CA INDEX NAME)

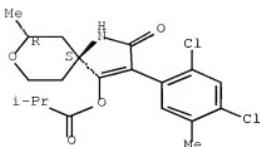
Relative stereochemistry.



RN 224560-07-0 CAPLUS

CN Propanoic acid, 2-methyl-, (5S,7R)-3-(2,4-dichloro-5-methylphenyl)-7-methyl-2-oxo-8-oxa-1-azaspiro[4.5]dec-3-en-4-yl ester, rel- (CA INDEX NAME)

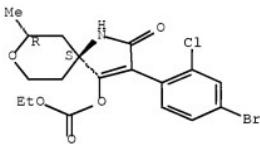
Relative stereochemistry.



RN 224560-15-0 CAPLUS

CN Carbonic acid, (5R,7S)-3-(4-bromo-2-chlorophenyl)-7-methyl-2-oxo-8-oxa-1-azaspiro[4.5]dec-3-en-4-yl ethyl ester, rel- (9CI) (CA INDEX NAME)

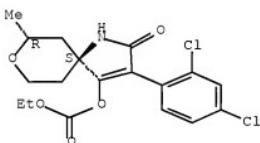
Relative stereochemistry.



RN 224560-19-4 CAPLUS

CN Carbonic acid, (5R,7S)-3-(2,4-dichlorophenyl)-7-methyl-2-oxo-8-oxa-1-azaspiro[4.5]dec-3-en-4-yl ethyl ester, rel- (9CI) (CA INDEX NAME)

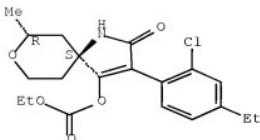
Relative stereochemistry.



RN 224560-20-7 CAPLUS

CN Carbonic acid, (5R,7S)-3-(2-chloro-4-ethylphenyl)-7-methyl-2-oxo-8-oxa-1-azaspiro[4.5]dec-3-en-4-yl ethyl ester, rel- (9CI) (CA INDEX NAME)

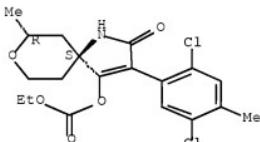
Relative stereochemistry.



RN 224560-24-1 CAPLUS

CN Carbonic acid, (5R,7S)-3-(2,5-dichloro-4-methylphenyl)-7-methyl-2-oxo-8-oxa-1-azaspiro[4.5]dec-3-en-4-yl ethyl ester, rel- (9CI) (CA INDEX NAME)

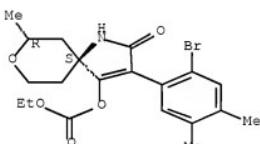
Relative stereochemistry.



RN 224560-26-3 CAPLUS

CN Carbonic acid, (5R,7S)-3-(2-bromo-4,5-dimethylphenyl)-7-methyl-2-oxo-8-oxa-1-azaspiro[4.5]dec-3-en-4-yl ethyl ester, rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



L3 ANSWER 40 OF 53 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1998:402444 CAPLUS [Full-text](#)

DOCUMENT NUMBER: 129:67712

ORIGINAL REFERENCE NO.: 129:14055a,14058a

TITLE: Preparation of

spiro[tetrahydropyran-3,2'-pyrrolidine-3,5-dione]

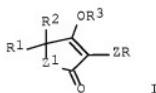
derivatives and analogs as herbicides and pesticides

INVENTOR(S): Hagemann, Hermann; Fischer, Reiner; Bretschneider, Thomas; Erdelen, Christoph; Wachendorff-Neumann,

Ulrike; Dahmen, Peter; et al.
 PATENT ASSIGNEE(S): Bayer A.-G., Germany; Hagemann, Hermann; Fischer,
 Reiner; Bretschneider, Thomas; Erdelen, Christoph
 SOURCE: PCT Int. Appl., 135 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: German
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9825928	A1	19980618	WO 1997-EP6708	19971201
W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW				
RW: GH, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
DE 19651686	A1	19980618	DE 1996-19651686	19961212
AU 9855595	A	19980703	AU 1998-55595	19971201
EP 944633	A1	19990929	EP 1997-952026	19971201
EP 944633	B1	20071010		
R: BE, CH, DE, ES, FR, GB, IT, LI, NL				
CN 1240449	A	20000105	CN 1997-180627	19971201
CN 1130366	C	20031210		
BR 9714470	A	20000516	BR 1997-14470	19971201
JP 2001505892	T	20010508	JP 1998-526161	19971201
ES 2296316	T3	20080416	ES 1997-952026	19971201
MX 9905063	A	20000228	MX 1999-5063	19990601
US 6288102	B1	20010911	US 1999-319489	19990604
US 6391912	B1	20020521	US 2001-895649	20010629
US 20020072617	A1	20020613		
US 20020161034	A1	20021031	US 2002-59094	20020128
US 6630594	B2	20031007		
PRIORITY APPLN. INFO.:			DE 1996-19651686	A 19961212
			WO 1997-EP6708	W 19971201
			US 1999-319489	A3 19990604
			US 2001-895619	A3 20010629

OTHER SOURCE(S): MARPAT 129:67712
 GI



AB Title compds. [I; R1R2 = CH2O(CH2)3 throughout][II; R = halo, alkyl, alkoxy, (un)substituted Ph, etc.; R3 = H, acyl, NH4, metal ion; Z = (un)substituted 1,2-phenylene; Z1 = O, S, NH] were prepared Thus, tetrahydropyran-3-one was treated with NH3/NaCN and the product N-acylated by mesitylacetyl chloride to give R1R2C(CN)NHCOCH2ZMe (Z = 4,6-dimethyl-1,2-phenylene) which was hydrolyzed

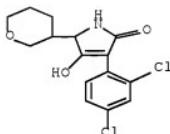
and the esterified product cyclized to give II (R = Me, R3 = H, Z = 4,6-dimethyl-1,2-phenylene, Z1 = NH). Data for biol. activity of I were given.

IT 209111-15-9P 209111-18-2P 209111-20-6P
 209111-22-8P 209111-35-3P 209111-39-7P

RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses and analogs as herbicides and pesticides)

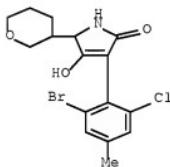
RN 209111-15-9 CAPLUS

CN 2H-Pyrrol-2-one, 3-(2,4-dichlorophenyl)-1,5-dihydro-4-hydroxy-5-(tetrahydro-2H-pyran-3-yl)- (CA INDEX NAME)



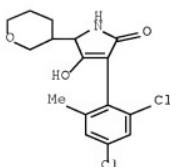
RN 209111-18-2 CAPLUS

CN 2H-Pyrrol-2-one, 3-(2-bromo-6-chloro-4-methylphenyl)-1,5-dihydro-4-hydroxy-5-(tetrahydro-2H-pyran-3-yl)- (CA INDEX NAME)

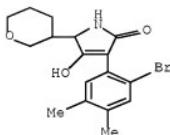


RN 209111-20-6 CAPLUS

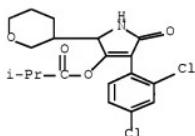
CN 2H-Pyrrol-2-one, 3-(2,4-dichloro-6-methylphenyl)-1,5-dihydro-4-hydroxy-5-(tetrahydro-2H-pyran-3-yl)- (CA INDEX NAME)



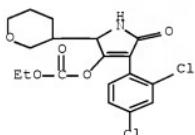
RN 209111-22-8 CAPLUS
CN 2H-Pyrrol-2-one, 3-(2-bromo-4,5-dimethylphenyl)-1,5-dihydro-4-hydroxy-5-(tetrahydro-2H-pyran-3-yl)- (CA INDEX NAME)



RN 209111-35-3 CAPLUS
CN Propanoic acid, 2-methyl-, 4-(2,4-dichlorophenyl)-2,5-dihydro-5-oxo-2-(tetrahydro-2H-pyran-3-yl)-1H-pyrrol-3-yl ester (CA INDEX NAME)



RN 209111-39-7 CAPLUS
CN Carbonic acid, 4-(2,4-dichlorophenyl)-2,5-dihydro-5-oxo-2-(tetrahydro-2H-pyran-3-yl)-1H-pyrrol-3-yl ethyl ester (CA INDEX NAME)



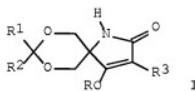
REFERENCE COUNT: 11 THERE ARE 11 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 41 OF 53 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 1998:112608 CAPLUS [Full-text](#)
DOCUMENT NUMBER: 128:180419
ORIGINAL REFERENCE NO.: 128:35607a,35610a

TITLE: Preparation of spiro[1,3-dioxanyl-5,2'-acyloxyxopyrroline] derivatives as herbicides and pesticides
 INVENTOR(S): Fischer, Reiner; Schneider, Udo; Dahmen, Peter;
 Dollinger, Markus; Erdelen, Christoph;
 Wachendorff-Neumann, Ulrike
 PATENT ASSIGNEE(S): Bayer A.-G., Germany
 SOURCE: Ger. Offen., 38 pp.
 CODEN: GWXXBX
 DOCUMENT TYPE: Patent
 LANGUAGE: German
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

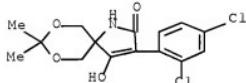
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 19632126	A1	19980212	DE 1996-19632126	19960809
WO 9806721	A1	19980219	WO 1997-EP4246	19970805
W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU				
RW: GH, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
AU 9742979	A	19980306	AU 1997-42979	19970805
EP 918775	A1	19990602	EP 1997-918958	19970805
EP 918775	B1	20051109		
R: BE, CH, DE, ES, FR, GB, IT, LI, NL				
CN 1227557	A	19990901	CN 1997-197165	19970805
CN 1128802	C	20031126		
BR 9711127	A	19990908	BR 1997-11127	19970805
JP 2000516927	T	20001219	JP 1998-509355	19970805
ES 2248846	T3	20060316	ES 1997-918958	19970805
US 6200932	B1	20010313	US 1999-230750	19990201
KR 2000029767	A	20000525	KR 1999-700882	19990202
PRIORITY APPLN. INFO.:			DE 1996-19632126	A 19960809
			WO 1997-EP4246	W 19970805

OTHER SOURCE(S): MARPAT 128:180419
GI



AB Title compds. [I; R = H or acyl; R1 = H, alkyl, (hetero)aryl, etc.; R2 = H, (halo)alkyl, (halo)alkoxy; R1R2 = atoms to complete a (heterocyclic) ring; R3 = ZR4' R4' = halo, alkyl, alkoxy, Ph, etc.; Z = (un)substituted 1,2-phenylene] were prepared. Thus, Me2C(OMe)2 was cyclocondensed with O2NC(CH2OH)3 and the reduced product N-acylated with mesityleneacetyl chloride to give, in 2 addnl. steps, MeO2CCR5R6NHCOCH2C6H2Me3-2,4,6 (R5R6 = CH2OCMe2CH2) which was cyclized

and the product O-acylated with Me₂CHCOCl to give I (R = COCHMe₂, R₁ = R₂ = Me, R₃ = C₆H₂Me₃-2,4,6). Data for biol. activity of I were given.
 IT 293253-01-4P
 RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses) (preparation of spiro[1,3-dioxanyl-5,2'-acyloxyoxopyrroline] derivs. as herbicides and pesticides)
 RN 203253-01-4 CAPLUS
 CN 7,9-Dioxa-1-azaspiro[4.5]dec-3-en-2-one,
 3-(2,4-dichlorophenyl)-4-hydroxy-8,8-dimethyl- (CA INDEX NAME)

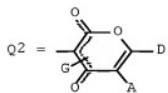
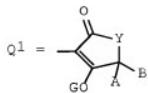
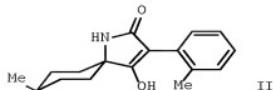
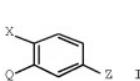


L3 ANSWER 42 OF 53 CAPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 1998:112341 CAPLUS Full-text
 DOCUMENT NUMBER: 128:180328
 ORIGINAL REFERENCE NO.: 128:35587a,35590a
 TITLE: Preparation of phenyl-substituted heterocyclic ketoenols as pesticides.
 INVENTOR(S): Lieb, Folker; Fischer, Reiner; Bretschneider, Thomas; Ruther, Michael; Graff, Alan; Schneider, Udo; et al.
 PATENT ASSIGNEE(S): Bayer A.-G., Germany; Lieb, Folker; Fischer, Reiner; Bretschneider, Thomas; Ruther, Michael; Graff, Alan
 SOURCE: PCT Int. Appl., 161 pp.
 DOCUMENT TYPE: Patent
 LANGUAGE: German
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9805638	A2	19980212	WO 1997-EP3973	19970723
WO 9805638	A3	19980319		
W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU				
RW: GH, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
DE 19716591	A1	19980305	DE 1997-19716591	19970421
IN 1997-DE01965	A	20050311	IN 1997-DE1965	19970715
AU 9737706	A	19980225	AU 1997-37706	19970723
AU 726090	B2	20001102		
EP 915846	A2	19990519	EP 1997-934523	19970723
EP 915846	B1	20030423		
R: BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, NL, PT				
BR 9711024	A	19990817	BR 1997-11024	19970723

CN 1232450	A	19991020	CN 1997-198554	19970723
CN 1240679	C	20060208		
HU 2000001833	A2	20000828	HU 2000-1833	19970723
HU 2000001833	A3	20011228		
JP 2000516918	T	20001219	JP 1998-507541	19970723
JP 4202423	B2	20081224		
EP 1277749	A1	20030122	EP 2002-23657	19970723
EP 1277749	B1	20060927		
R: BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, NL, PT				
EP 1277733	A1	20030122	EP 2002-23658	19970723
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EP 1277751	A1	20030122	EP 2002-23659	19970723
EP 1277751	B1	20061102		
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EP 1277734	A1	20030122	EP 2002-23660	19970723
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EP 1277735	A1	20030122	EP 2002-23661	19970723
R: BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, NL, PT				
PT 915846	T	20030930	PT 1997-934523	19970723
ES 2193389	T3	20031101	ES 1997-934523	19970723
IL 128235	A	20040328	IL 1997-128235	19970723
IL 155069	A	20040620	IL 1997-155069	19970723
IL 155070	A	20050725	IL 1997-155070	19970723
CN 1651392	A	20050810	CN 2004-10100062	19970723
CN 100339352	C	20070926		
CN 1865219	A	20061122	CN 2006-10058906	19970723
CN 1896070	A	20070117	CN 2006-10100335	19970723
CN 1931827	A	20070321	CN 2006-10101104	19970723
ES 2271170	T3	20070416	ES 2002-23657	19970723
ES 2275796	T3	20070616	ES 2002-23659	19970723
ES 2278856	T3	20070816	ES 2002-23660	19970723
ZA 9706915	A	19980210	ZA 1997-6915	19970804
US 6114374	A	20000905	US 1999-230653	19990128
KR 2000029671	A	20000525	KR 1999-700749	19990129
US 6255342	B1	20010703	US 2000-548129	20000412
US 20020010204	A1	20020124	US 2001-809619	20010315
US 6359151	B2	20020319		
US 6504036	B1	20030107	US 2001-6115	20011210
US 6596873	B1	20030722	US 2002-264424	20021004
PRIORITY APPLN. INFO.:			DE 1996-19631586	A 19960805
			DE 1997-19716591	A 19970421
			CN 2004-10100062	A3 19970723
			EP 1997-934523	A3 19970723
			IL 1997-128235	A3 19970723
			WO 1997-EP3973	W 19970723
			US 1999-230653	A3 19990128
			US 2000-548129	A3 20000412
			US 2001-809619	A3 20010315
			US 2001-6115	A3 20011210

OTHER SOURCE(S): CASREACT 128:180328; MARPAT 128:180328
GI



AB Title compds. [I; X = halo, alkyl, alkenyl, alkynyl, alkoxy, benzyloxy, haloalkyl, haloalkoxy, cyano, NO₂; Z = H, amino, halo, alkyl, alkoxy, haloalkyl, haloalkoxy, OH, cyano, NO₂, (substituted) PhO, PhS, heteroarylthio, heteroarylthio, phenylalkoxy, phenylalkylthio; Q = Q₁, Q₂; Y = NH, O, S; A = (substituted) alkyl, alkenyl, alkoxyalkyl, alkylthioalkyl, (unsatd.) cycloalkyl, heterocyclyl, aryl, aralkyl, heteroaryl; B = alkyl, alkoxyalkyl; AB, AD = atoms to form (unsatd.) (substituted) carbocyclic or heterocyclic rings; D = H, (substituted) alkyl, alkenyl, alkynyl, alkoxyalkyl, alkylthioalkyl, (unsatd.) cycloalkyl, heterocyclyl, aralkyl, aryl, heteroarylalkyl, heteroaryl; G = H, acyl], were prepared. Thus, title compound (II) (preparation given) on 0.15 gave 100% kill of *Phaedon cochleariae* larvae on cabbage leaves.

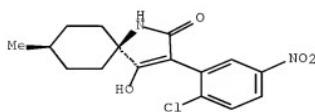
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 203313-15-9P 203313-28-4P 203313-29-5P
 203313-35-3P 203313-36-4P 203313-37-5P

RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses) (preparation of phenyl-substituted heterocyclic ketoenols as pesticides)

RN 203312-44-1 CAPLUS

CN 1-Azaspiro[4.5]dec-3-en-2-one, 3-(2-chloro-5-nitrophenyl)-4-hydroxy-8-methyl-, (5a,8a)- (CA INDEX NAME)

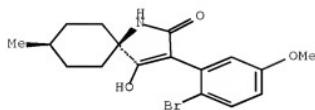
Relative stereochemistry.



RN 203312-54-3 CAPLUS

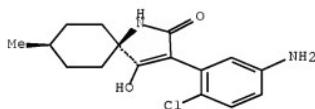
CN 1-Azaspiro[4.5]dec-3-en-2-one, 3-(2-bromo-5-methoxyphenyl)-4-hydroxy-8-methyl-, (5a,8a)- (CA INDEX NAME)

Relative stereochemistry.



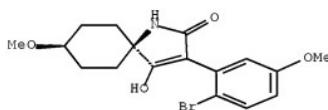
RN 203312-56-5 CAPLUS
CN 1-Azaspiro[4.5]dec-3-en-2-one, 3-(5-amino-2-chlorophenyl)-4-hydroxy-8-methyl-, (5a,8a)- (CA INDEX NAME)

Relative stereochemistry.



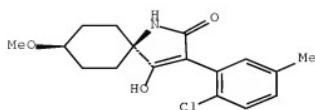
RN 203312-60-1 CAPLUS
CN 1-Azaspiro[4.5]dec-3-en-2-one, 3-(2-bromo-5-methoxyphenyl)-4-hydroxy-8-methoxy-, (5a,8a)- (CA INDEX NAME)

Relative stereochemistry.



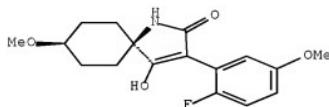
RN 203312-62-3 CAPLUS
CN 1-Azaspiro[4.5]dec-3-en-2-one, 3-(2-chloro-5-methylphenyl)-4-hydroxy-8-methoxy-, (5a,8a)- (CA INDEX NAME)

Relative stereochemistry.



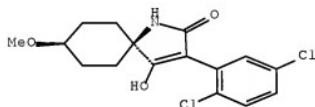
RN 203312-65-6 CAPLUS
CN 1-Azaspido[4.5]dec-3-en-2-one, 3-(2-fluoro-5-methoxyphenyl)-4-hydroxy-8-methoxy-, (5 α ,8 α)- (CA INDEX NAME)

Relative stereochemistry.



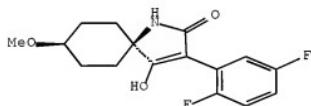
RN 203312-71-4 CAPLUS
CN 1-Azaspido[4.5]dec-3-en-2-one, 3-(2,5-dichlorophenyl)-4-hydroxy-8-methoxy-, (5 α ,8 α)- (CA INDEX NAME)

Relative stereochemistry.



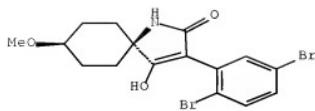
RN 203312-74-7 CAPLUS
CN 1-Azaspido[4.5]dec-3-en-2-one, 3-(2,5-difluorophenyl)-4-hydroxy-8-methoxy-, (5 α ,8 α)- (CA INDEX NAME)

Relative stereochemistry.



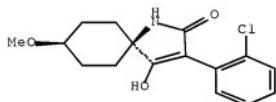
RN 203312-77-0 CAPLUS
CN 1-Azaspido[4.5]dec-3-en-2-one, 3-(2,5-dibromophenyl)-4-hydroxy-8-methoxy-, (5 α ,8 α)- (CA INDEX NAME)

Relative stereochemistry.



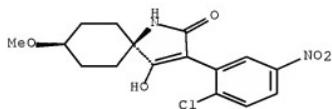
RN 203312-79-2 CAPLUS
CN 1-Azaspiro[4.5]dec-3-en-2-one, 3-(2-chlorophenyl)-4-hydroxy-8-methoxy-,
(5a,8a)- (CA INDEX NAME)

Relative stereochemistry.



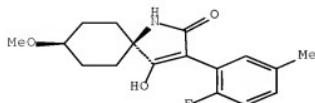
RN 203312-81-6 CAPLUS
CN 1-Azaspiro[4.5]dec-3-en-2-one, 3-(2-chloro-5-nitrophenyl)-4-hydroxy-8-
methoxy-, (5a,8a)- (CA INDEX NAME)

Relative stereochemistry.



RN 203312-83-8 CAPLUS
CN 1-Azaspiro[4.5]dec-3-en-2-one, 3-(2-fluoro-5-methylphenyl)-4-hydroxy-8-
methoxy-, (5a,8a)- (CA INDEX NAME)

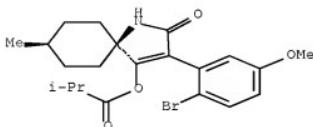
Relative stereochemistry.



RN 203313-03-5 CAPLUS

CN Propanoic acid, 2-methyl-, (5 α ,8 α)-3-(2-bromo-5-methoxyphenyl)-8-methyl-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ester (CA INDEX NAME)

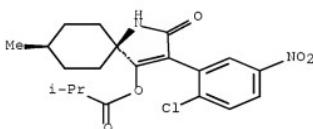
Relative stereochemistry.



RN 203313-04-6 CAPLUS

CN Propanoic acid, 2-methyl-, (5 α ,8 α)-3-(2-chloro-5-nitrophenyl)-8-methyl-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ester (CA INDEX NAME)

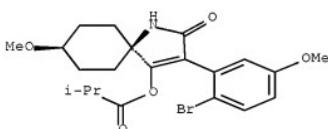
Relative stereochemistry.



RN 203313-14-8 CAPLUS

CN Propanoic acid, 2-methyl-, (5 α ,8 α)-3-(2-bromo-5-methoxyphenyl)-8-methoxy-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ester (CA INDEX NAME)

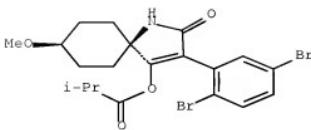
Relative stereochemistry.



RN 203313-15-9 CAPLUS

CN Propanoic acid, 2-methyl-, (5 α ,8 α)-3-(2,5-dibromophenyl)-8-methoxy-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ester (CA INDEX NAME)

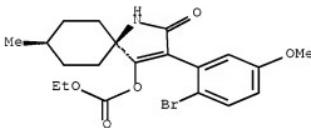
Relative stereochemistry.



RN 203313-28-4 CAPLUS

CN Carbonic acid, 3-(2-bromo-5-methoxyphenyl)-8-methyl-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ethyl ester, cis- (9CI) (CA INDEX NAME)

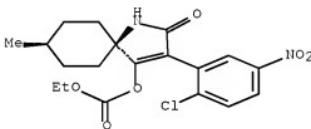
Relative stereochemistry.



RN 203313-29-5 CAPLUS

CN Carbonic acid, 3-(2-chloro-5-nitrophenyl)-8-methyl-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ethyl ester, cis- (9CI) (CA INDEX NAME)

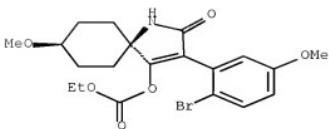
Relative stereochemistry.



RN 203313-35-3 CAPLUS

CN Carbonic acid, 3-(2-bromo-5-methoxyphenyl)-8-methoxy-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ethyl ester, cis- (9CI) (CA INDEX NAME)

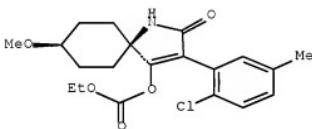
Relative stereochemistry.



RN 203313-36-4 CAPLUS

CN Carbonic acid, 3-(2-chloro-5-methylphenyl)-8-methoxy-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ethyl ester, cis- (9CI) (CA INDEX NAME)

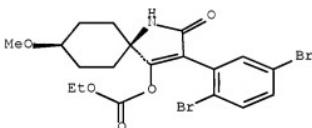
Relative stereochemistry.



RN 203313-37-5 CAPLUS

CN Carbonic acid, 3-(2,5-dibromophenyl)-8-methoxy-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ethyl ester, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



L3 ANSWER 43 OF 53 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1997:679056 CAPLUS [Full-text](#)

DOCUMENT NUMBER: 127:318875

ORIGINAL REFERENCE NO.: 127:62493a,62496a

TITLE: Arylheterocyclic keto enols as pesticides and herbicides

INVENTOR(S): Lieb, Volker; Hagemann, Hermann; Widdig, Arno; Ruther, Michael; Fischer, Reiner; Bretschneider, Thomas; Erdelen, Christoph; Wachendorff-Neumann, Ulrike; Graff, Alan; Schneider, Udo

PATENT ASSIGNEE(S): Bayer A.-G., Germany; Lieb, Volker; Hagemann, Hermann; Widdig, Arno; Ruther, Michael; Fischer, Reiner;

Bretschneider, Thomas; Erdelen, Christoph;

Wachendorff-Neumann, Ulrike; et al.

SOURCE: PCT Int. Appl., 192 pp.

DOCUMENT TYPE: Patent

LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

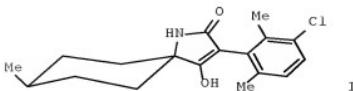
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9736868	A1	19971009	WO 1997-EP1426	19970321
W: AU, BB, BG, NZ, PL, RO, RW: AT, BE, CH, DE, BF,	BR, BY, CA, CN, SK, TR, UA, ES, FI, FR, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG			
DE 19649665	A1	19971009	DE 1996-19649665	19961129
IN 1997DE00661	A	20050311	IN 1997-DE661	19970317
CA 2250417	A1	19971009	CA 1997-2250417	19970321
AU 9722900	A	19971022	AU 1997-22900	19970321
AU 725852	B2	20001019		
EP 891330	A1	19990120	EP 1997-915409	19970321
EP 891330	B1	20060308		
R: BE, CH, DE, CN 1215390	ES, FR, GB, GR, A	IT, LI, NL, PT 19990428	CN 1997-193592	19970321
BR 9708425	A	19990803	BR 1997-8425	19970321
JP 2000507564	T	20000620	JP 1997-534875	19970321
JP 4153040	B2	20080917		
TR 9801990	T2	20000621	TR 1998-1990	19970321
IL 126357	A	20031031	IL 1997-126357	19970321
CN 1535956	A	20041013	CN 2004-10034295	19970321
CN 1631879	A	20050629	CN 2004-10095691	19970321
ES 2259804	T3	20061016	ES 1997-915409	19970321
EP 1721522	A2	20061115	EP 2005-26674	19970321
EP 1721522	A3	20070103		
R: AT, BE, CH, PT, SE	DE, DK, ES, FI, KR 200004994	FR, GB, GR, IE, A	IT, LI, LU, MC, NL, KR 1998-707606	19980925
US 6140358	A	20001031	US 1998-155637	19980929
US 20010004629	A1	20010621	US 2000-550105	20000414
US 6271190	B2	20010807		
US 6388123	B1	20020514	US 2001-871611	20010601
US 6486343	B1	20021126	US 2002-74351	20020212
PRIORITY APPLN. INFO.:			DE 1996-19613171	A 19960402
			DE 1996-19649665	A 19961129
			EP 1997-915409	A3 19970321
			WO 1997-EP1426	W 19970321
			US 1998-155637	A3 19980929
			US 2000-550105	A3 20000414
			US 2001-871611	A3 20010601

OTHER SOURCE(S):

MARPAT 127:318875

GI



AB Title compds. were prepared. Thus, 3,2,6-Cl(Me)2C6H2CH2CO2H was treated with Me cis-1-amino-4-methylcyclohexanecarboxylate and cyclized with base to give the pyrrolinone I. At 0.1% I gave 100% control of Nephrotettix cincticeps on rice.

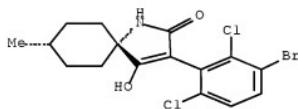
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197710-11-5P 197710-12-6P 197710-18-2P
197710-22-8P 197710-23-9P 197710-24-0P

RL: AGR (Agricultural use); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of arylheterocyclic keto enols as insecticides and acaricides)

RN 197709-75-4 CAPLUS

CN 1-Azaspiro[4.5]dec-3-en-2-one, 3-(3-bromo-2,6-dichlorophenyl)-4-hydroxy-8-methoxy-, (5a,8a)- (CA INDEX NAME)

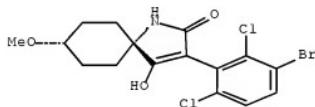
Relative stereochemistry.



RN 197709-76-5 CAPLUS

CN 1-Azaspiro[4.5]dec-3-en-2-one, 3-(3-bromo-2,6-dichlorophenyl)-4-hydroxy-8-methoxy-, (5a,8a)- (CA INDEX NAME)

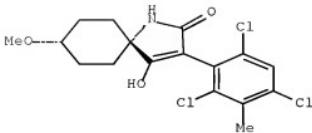
Relative stereochemistry.



RN 197709-82-3 CAPLUS

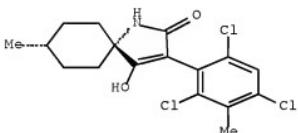
CN 1-Azaspiro[4.5]dec-3-en-2-one, 4-hydroxy-8-methoxy-3-(2,4,6-trichloro-3-methylphenyl)-, (5a,8a)- (CA INDEX NAME)

Relative stereochemistry.



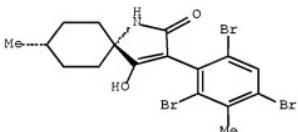
RN 197709-87-8 CAPLUS
 CN 1-Azaspiro[4.5]dec-3-en-2-one, 4-hydroxy-8-methyl-3-(2,4,6-trichloro-3-methylphenyl)-, (5a,8a)- (CA INDEX NAME)

Relative stereochemistry.



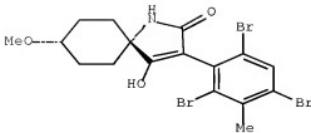
RN 197709-88-9 CAPLUS
 CN 1-Azaspiro[4.5]dec-3-en-2-one, 4-hydroxy-8-methyl-3-(2,4,6-tribromo-3-methylphenyl)-, (5a,8a)- (CA INDEX NAME)

Relative stereochemistry.



RN 197709-89-0 CAPLUS
 CN 1-Azaspiro[4.5]dec-3-en-2-one, 4-hydroxy-8-methoxy-3-(2,4,6-tribromo-3-methylphenyl)-, (5a,8a)- (CA INDEX NAME)

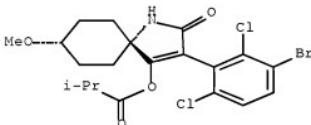
Relative stereochemistry.



RN 197710-05-7 CAPLUS

CN Propanoic acid, 2-methyl-, (5 α ,8 α)-3-(3-bromo-2,6-dichlorophenyl)-8-methoxy-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ester (CA INDEX NAME)

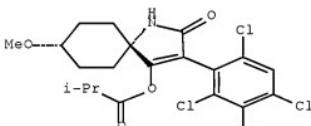
Relative stereochemistry.



RN 197710-09-1 CAPLUS

CN Propanoic acid, 2-methyl-, (5 α ,8 α)-8-methoxy-2-oxo-3-(2,4,6-trichloro-3-methylphenyl)-1-azaspiro[4.5]dec-3-en-4-yl ester (CA INDEX NAME)

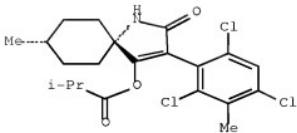
Relative stereochemistry.



RN 197710-10-4 CAPLUS

CN Propanoic acid, 2-methyl-, (5 α ,8 α)-8-methyl-2-oxo-3-(2,4,6-trichloro-3-methylphenyl)-1-azaspiro[4.5]dec-3-en-4-yl ester (CA INDEX NAME)

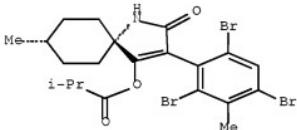
Relative stereochemistry.



RN 197710-11-5 CAPLUS

CN Propanoic acid, 2-methyl-, (5a,8a)-8-methyl-2-oxo-3-(2,4,6-tribromo-3-methylphenyl)-1-azaspiro[4.5]dec-3-en-4-yl ester (CA INDEX NAME)

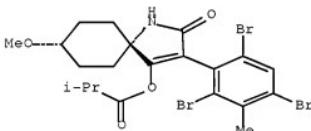
Relative stereochemistry.



RN 197710-12-6 CAPLUS

CN Propanoic acid, 2-methyl-, (5a,8a)-8-methoxy-2-oxo-3-(2,4,6-tribromo-3-methylphenyl)-1-azaspiro[4.5]dec-3-en-4-yl ester (CA INDEX NAME)

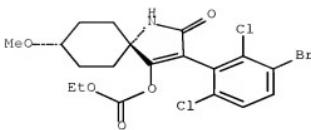
Relative stereochemistry.



RN 197710-18-2 CAPLUS

CN Carbonic acid, 3-(3-bromo-2,6-dichlorophenyl)-8-methoxy-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ethyl ester, cis- (9CI) (CA INDEX NAME)

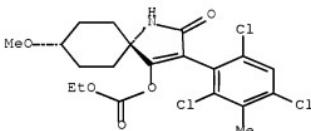
Relative stereochemistry.



RN 197710-22-8 CAPLUS

CN Carbonic acid, 8-methoxy-2-oxo-3-(2,4,6-trichloro-3-methylphenyl)-1-azaspiro[4.5]dec-3-en-4-yl ethyl ester, *cis*- (9CI) (CA INDEX NAME)

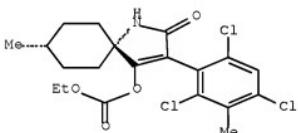
Relative stereochemistry.



RN 197710-23-9 CAPLUS

CN Carbonic acid, 8-methyl-2-oxo-3-(2,4,6-trichloro-3-methylphenyl)-1-azaspiro[4.5]dec-3-en-4-yl ethyl ester, *cis*- (9CI) (CA INDEX NAME)

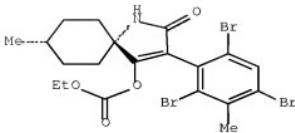
Relative stereochemistry.



RN 197710-24-0 CAPLUS

CN Carbonic acid, 8-methyl-2-oxo-3-(2,4,6-tribromo-3-methylphenyl)-1-azaspiro[4.5]dec-3-en-4-yl ethyl ester, *cis*- (9CI) (CA INDEX NAME)

Relative stereochemistry.



L3 ANSWER 44 OF 53 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1997:151521 CAPLUS Full-text

DOCUMENT NUMBER: 126:157396

ORIGINAL REFERENCE NO.: 126:30439a,30442a

TITLE: Preparation of 3-phenylheterocycloalkyl-2,4-dione enols as pesticides and herbicides

INVENTOR(S): Lieb, Folker; Hagemann, Hermann; Widdig, Arno; Ruther, Michael; Fischer, Reiner; Bretschneider, Thomas; Erdelen, Christoph; Wachendorff-Neumann, Ulrike; Dahmen, Peter; Dollinger, Markus; Santel, Hans-Joachim; Graff, Alan; Andersch, Wolfram

PATENT ASSIGNEE(S): Bayer A.-G., Germany

SOURCE: Ger. Offen., 135 pp.

DOCUMENT TYPE: Patent

LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 19603332	A1	19970102	DE 1996-19603332	19960131
CA 2225830	A1	19970123	CA 1996-2225830	19960617
CA 2225830	C	20080108		
CA 2532743	A1	19970123	CA 1996-2532743	19960617
CA 2532743	C	20080826		
WO 9702243	A1	19970123	WO 1996-EP2601	19960617
W: AU, BB, BG, BR, BY, CA, CN, CZ, HU, JP, KR, KZ, LK, MX, NO, NZ, PL, RO, RU, SK, TR, UA, US				
RW: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
AU 9663561	A	19970205	AU 1996-63561	19960617
AU 707357	B2	19990708		
EP 835243	A1	19980415	EP 1996-922817	19960617
EP 835243	B1	20030129		
R: BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, NL				
CN 1193960	A	19980923	CN 1996-196456	19960617
CN 1152860	C	20040609		
HU 9802279	A2	19990128	HU 1998-2279	19960617
HU 9802279	A3	20010528		
BR 9609301	A	19990525	BR 1996-9301	19960617
JP 11510481	T	19990914	JP 1996-504750	19960617
CN 1362397	A	20020807	CN 2001-2001138493	19960617
CN 1229323	C	20051130		
ES 2189877	T3	20030716	ES 1996-922817	19960617
IN 1996DE01384	A	20050701	IN 1996-DE1384	19960624
ZA 9605516	A	19970206	ZA 1996-5516	19960628

TW 410141	B	20001101	TW 1996-85107798	19960628
US 5994274	A	19991130	US 1997-981610	19971223
US 6251830	B1	20010626	US 1999-360510	19990726
US 20020022575	A1	20020221	US 2001-839481	20010420
US 6469196	B2	20021022		
US 20030144504	A1	20030731	US 2002-197720	20020718
US 6759548	B2	20040706		

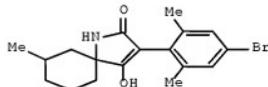
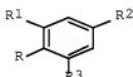
PRIORITY APPLN. INFO.:

DE 1995-19523850	A1	19950630
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WO 1996-EP2601	W	19960617
US 1997-981610	A3	19971223
US 1999-360510	A3	19990726
US 2001-839481	A3	20010420

OTHER SOURCE(S):

MARPAT 126:157396

GI



AB Title compds. [I; R = 4-(O-acyl)hydroxy-2-oxo-3-pyrrolin-2-yl, -2,5-dihydro-3-furyl, -2,5-dihydro-3-thienyl, etc.; R1 = alkyl; R2,R3 = halo or alkyl] were prepared. Thus, 4,2,6-BrMe2C6H2CH2CO2H was amidated by Me 1-amino-3-methylcyclohexanecarboxylate and the product cyclized to give title compound II. Data for biol. activity of I were given.

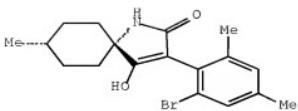
IT
 186746-46-3P 186746-46-5P 186746-50-9P
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 186747-36-4P 186747-37-5P 186747-41-1P
 186747-42-2P 186747-43-3P 186747-44-4P
 186747-49-9P

RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses) (preparation of 3-phenylheterocycloalkyl-2,4-dione enols as pesticides and herbicides)

RN 186746-46-3 CAPLUS

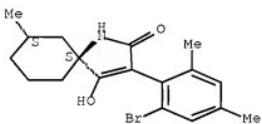
CN 1-Azaspiro[4.5]dec-3-en-2-one, 3-(2-bromo-4,6-dimethylphenyl)-4-hydroxy-8-methyl-, (5a,8a)- (CA INDEX NAME)

Relative stereochemistry.

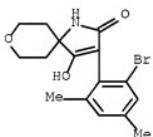


RN 186746-48-5 CAPLUS
 CN 1-Azaspiro[4.5]dec-3-en-2-one, 3-(2-bromo-4,6-dimethylphenyl)-4-hydroxy-7-methyl-, (5R,7R)-rel- (CA INDEX NAME)

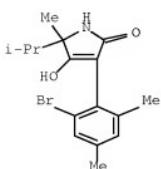
Relative stereochemistry.



RN 186746-50-9 CAPLUS
 CN 8-Oxa-1-azaspiro[4.5]dec-3-en-2-one,
 3-(2-bromo-4,6-dimethylphenyl)-4-hydroxy- (CA INDEX NAME)

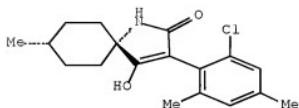


RN 186746-52-1 CAPLUS
 CN 2H-Pyrrol-2-one, 3-(2-bromo-4,6-dimethylphenyl)-1,5-dihydro-4-hydroxy-5-methyl-5-(1-methylethyl)- (CA INDEX NAME)



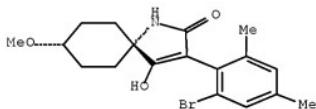
RN 186746-54-3 CAPLUS
CN 1-Azaspiro[4.5]dec-3-en-2-one, 3-(2-chloro-4,6-dimethylphenyl)-4-hydroxy-8-methyl-, (5a,8a)- (CA INDEX NAME)

Relative stereochemistry.

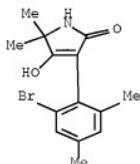


RN 186746-58-7 CAPLUS
CN 1-Azaspiro[4.5]dec-3-en-2-one, 3-(2-bromo-4,6-dimethylphenyl)-4-hydroxy-8-methoxy-, (5a,8a)- (CA INDEX NAME)

Relative stereochemistry.

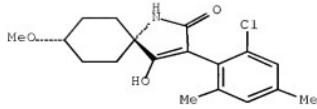


RN 186746-60-1 CAPLUS
CN 2H-Pyrrol-2-one, 3-(2-bromo-4,6-dimethylphenyl)-1,5-dihydro-4-hydroxy-5,5-dimethyl- (CA INDEX NAME)



RN 186746-79-2 CAPLUS
CN 1-Azaspiro[4.5]dec-3-en-2-one, 3-(2-chloro-4,6-dimethylphenyl)-4-hydroxy-8-methoxy-, (5a,8a)- (CA INDEX NAME)

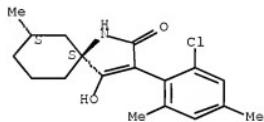
Relative stereochemistry.



RN 186746-80-5 CAPLUS

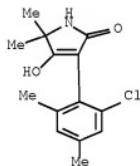
CN 1-Azaspiro[4.5]dec-3-en-2-one, 3-(2-chloro-4,6-dimethylphenyl)-4-hydroxy-7-methyl-, (5R,7R)-rel- (CA INDEX NAME)

Relative stereochemistry.



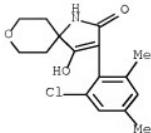
RN 186746-82-7 CAPLUS

CN 2H-Pyrrol-2-one, 3-(2-chloro-4,6-dimethylphenyl)-1,5-dihydro-4-hydroxy-5,5-dimethyl- (CA INDEX NAME)

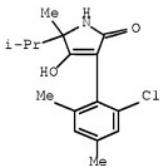


RN 186746-83-8 CAPLUS

CN 8-Oxa-1-azaspiro[4.5]dec-3-en-2-one, 3-(2-chloro-4,6-dimethylphenyl)-4-hydroxy- (CA INDEX NAME)

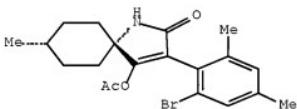


RN 186746-85-0 CAPLUS
 CN 2H-Pyrrol-2-one, 3-(2-chloro-4,6-dimethylphenyl)-1,5-dihydro-4-hydroxy-5-methyl-1-(1-methylethyl)- (CA INDEX NAME)



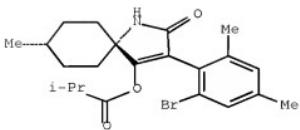
RN 186746-99-6 CAPLUS
 CN 1-Azaspido[4.5]dec-3-en-2-one, 4-(acetyloxy)-3-(2-bromo-4,6-dimethylphenyl)-8-methyl-, (5a,8a)- (CA INDEX NAME)

Relative stereochemistry.



RN 186747-00-2 CAPLUS
 CN Propanoic acid, 2-methyl-, (5a,8a)-3-(2-bromo-4,6-dimethylphenyl)-8-methyl-2-oxo-1-azaspido[4.5]dec-3-en-4-yl ester (CA INDEX NAME)

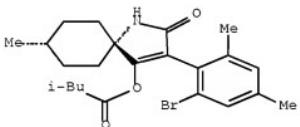
Relative stereochemistry.



RN 186747-01-3 CAPLUS

CN Butanoic acid, 3-methyl-, (5a,8a)-3-(2-bromo-4,6-dimethylphenyl)-8-methyl-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ester (CA INDEX NAME)

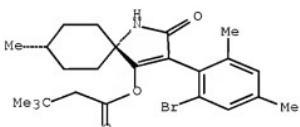
Relative stereochemistry.



RN 186747-02-4 CAPLUS

CN Butanoic acid, 3,3-dimethyl-, (5a,8a)-3-(2-bromo-4,6-dimethylphenyl)-8-methyl-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ester (CA INDEX NAME)

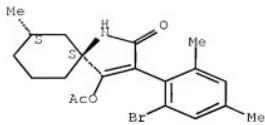
Relative stereochemistry.



RN 186747-03-5 CAPLUS

CN 1-Azaspiro[4.5]dec-3-en-2-one, 4-(acetoxy)-3-(2-bromo-4,6-dimethylphenyl)-7-methyl-, (5R,7R)-rel- (CA INDEX NAME)

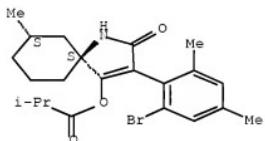
Relative stereochemistry.



RN 186747-04-6 CAPLUS

CN Propanoic acid, 2-methyl-, (5R,7R)-3-(2-bromo-4,6-dimethylphenyl)-7-methyl-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ester, rel- (CA INDEX NAME)

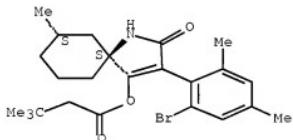
Relative stereochemistry.



RN 186747-05-7 CAPLUS

CN Butanoic acid, 3,3-dimethyl-, (5R,7R)-3-(2-bromo-4,6-dimethylphenyl)-7-methyl-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ester, rel- (CA INDEX NAME)

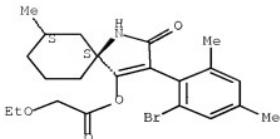
Relative stereochemistry.



RN 186747-06-8 CAPLUS

CN Acetic acid, 2-ethoxy-, (5R,7R)-3-(2-bromo-4,6-dimethylphenyl)-7-methyl-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ester, rel- (CA INDEX NAME)

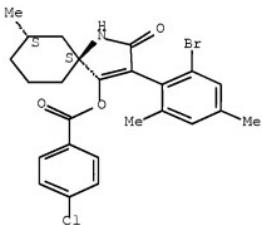
Relative stereochemistry.



RN 186747-07-9 CAPLUS

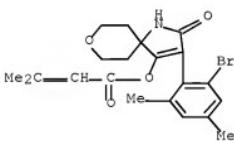
CN Benzoic acid, 4-chloro-, (5R,7R)-3-(2-bromo-4,6-dimethylphenyl)-7-methyl-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ester, rel- (CA INDEX NAME)

Relative stereochemistry.



RN 186747-08-0 CAPLUS

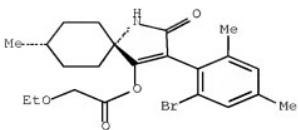
CN 2-Butenoic acid, 3-methyl-, 3-(2-bromo-4,6-dimethylphenyl)-2-oxo-8-oxa-1-azaspiro[4.5]dec-3-en-4-yl ester (CA INDEX NAME)



RN 186747-09-1 CAPLUS

CN Acetic acid, 2-ethoxy-, (5a,8a)-3-(2-bromo-4,6-dimethylphenyl)-8-methyl-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ester (CA INDEX NAME)

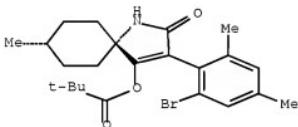
Relative stereochemistry.



RN 186747-11-5 CAPLUS

CN Propanoic acid, 2,2-dimethyl-, (5 α ,8 α)-3-(2-bromo-4,6-dimethylphenyl)-8-methyl-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ester (CA INDEX NAME)

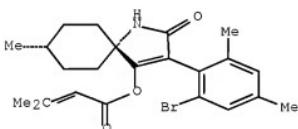
Relative stereochemistry.



RN 186747-12-6 CAPLUS

CN 2-Butenoic acid, 3-methyl-, (5 α ,8 α)-3-(2-bromo-4,6-dimethylphenyl)-8-methyl-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ester (CA INDEX NAME)

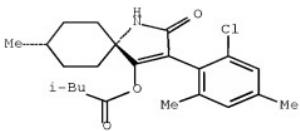
Relative stereochemistry.



RN 186747-22-8 CAPLUS

CN Butanoic acid, 3-methyl-, (5 α ,8 α)-3-(2-chloro-4,6-dimethylphenyl)-8-methyl-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ester (CA INDEX NAME)

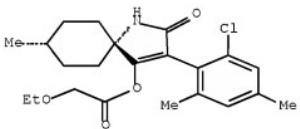
Relative stereochemistry.



RN 186747-23-9 CAPLUS

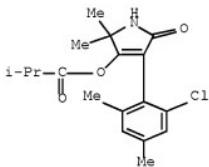
CN Acetic acid, 2-ethoxy-, (5a,8a)-3-(2-chloro-4,6-dimethylphenyl)-8-methyl-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ester (CA INDEX NAME)

Relative stereochemistry.



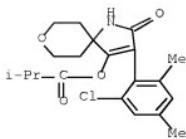
RN 186747-24-0 CAPLUS

CN Propanoic acid, 2-methyl-, 4-(2-chloro-4,6-dimethylphenyl)-2,5-dihydro-2,2-dimethyl-5-oxo-1H-pyrrol-3-yl ester (CA INDEX NAME)



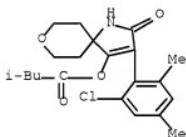
RN 186747-25-1 CAPLUS

CN Propanoic acid, 2-methyl-, 3-(2-chloro-4,6-dimethylphenyl)-2-oxo-8-oxa-1-azaspiro[4.5]dec-3-en-4-yl ester (CA INDEX NAME)



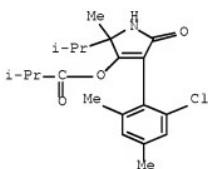
RN 186747-26-2 CAPLUS

CN Butanoic acid, 3-methyl-, 3-(2-chloro-4,6-dimethylphenyl)-2-oxo-8-oxa-1-azaspiro[4.5]dec-3-en-4-yl ester (CA INDEX NAME)



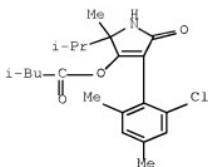
RN 186747-27-3 CAPLUS

CN Propanoic acid, 2-methyl-, 4-(2-chloro-4,6-dimethylphenyl)-2,5-dihydro-2-methyl-2-(1-methylethyl)-5-oxo-1H-pyrrol-3-yl ester (CA INDEX NAME)



RN 186747-28-4 CAPLUS

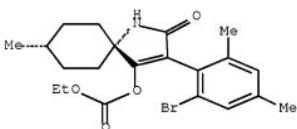
CN Butanoic acid, 3-methyl-, 4-(2-chloro-4,6-dimethylphenyl)-2,5-dihydro-2-methyl-2-(1-methylethyl)-5-oxo-1H-pyrrol-3-yl ester (CA INDEX NAME)



RN 186747-32-0 CAPLUS

CN Carbonic acid, 3-(2-bromo-4,6-dimethylphenyl)-8-methyl-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ethyl ester, *cis*- (9CI) (CA INDEX NAME)

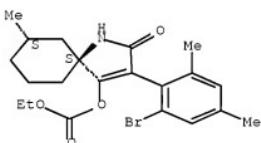
Relative stereochemistry.



RN 186747-33-1 CAPLUS

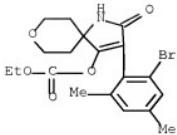
CN Carbonic acid, 3-(2-bromo-4,6-dimethylphenyl)-7-methyl-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ethyl ester, *trans*- (9CI) (CA INDEX NAME)

Relative stereochemistry.



RN 186747-34-2 CAPLUS

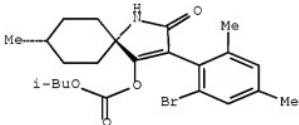
CN Carbonic acid, 3-(2-bromo-4,6-dimethylphenyl)-2-oxo-8-oxa-1-azaspiro[4.5]dec-3-en-4-yl ethyl ester (CA INDEX NAME)



RN 186747-35-3 CAPLUS

CN Carbonic acid, 3-(2-bromo-4,6-dimethylphenyl)-8-methyl-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl 2-methylpropyl ester, *cis*- (9CI) (CA INDEX NAME)

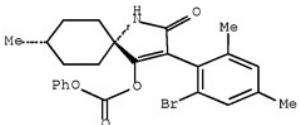
Relative stereochemistry.



RN 186747-36-4 CAPLUS

CN Carbonic acid, 3-(2-bromo-4,6-dimethylphenyl)-8-methyl-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl phenyl ester, *cis*- (9CI) (CA INDEX NAME)

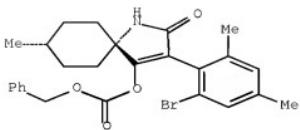
Relative stereochemistry.



RN 186747-37-5 CAPLUS

CN Carbonic acid, 3-(2-bromo-4,6-dimethylphenyl)-8-methyl-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl phenylmethyl ester, *cis*- (9CI) (CA INDEX NAME)

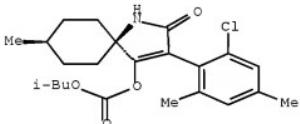
Relative stereochemistry.



RN 186747-41-1 CAPLUS

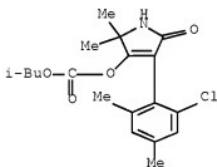
CN Carbonic acid, 3-(2-chloro-4,6-dimethylphenyl)-8-methyl-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl 2-methylpropyl ester, *cis*- (9CI) (CA INDEX NAME)

Relative stereochemistry.



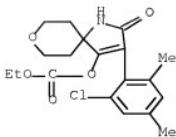
RN 186747-42-2 CAPLUS

CN Carbonic acid, 4-(2-chloro-4,6-dimethylphenyl)-2,5-dihydro-2,2-dimethyl-5-oxo-1H-pyrrol-3-yl 2-methylpropyl ester (CA INDEX NAME)



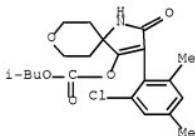
RN 186747-43-3 CAPLUS

CN Carbonic acid, 3-(2-chloro-4,6-dimethylphenyl)-2-oxo-8-oxa-1-azaspiro[4.5]dec-3-en-4-yl ethyl ester (CA INDEX NAME)



RN 186747-44-4 CAPLUS

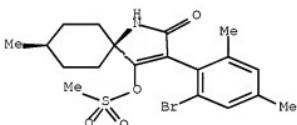
CN Carbonic acid, 3-(2-chloro-4,6-dimethylphenyl)-2-oxo-8-oxa-1-azaspiro[4.5]dec-3-en-4-yl 2-methylpropyl ester (CA INDEX NAME)



RN 186747-49-9 CAPLUS

CN 1-Azaspido[4.5]dec-3-en-2-one, 3-(2-bromo-4,6-dimethylphenyl)-8-methyl-4-[(methylsulfonyl)oxy]-, (5a,8a)- (CA INDEX NAME)

Relative stereochemistry.



L3 ANSWER 45 OF 53 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1997:140239 CAPLUS Full-text

DOCUMENT NUMBER: 126:144113

ORIGINAL REFERENCE NO.: 126:27857a,27860a

TITLE: Preparation of 3-phenylheterocycloalkyl-2,4-dione enols as herbicides and pesticides

INVENTOR(S): Lieb, Folker; Hagemann, Hermann; Widdig, Arno; Ruther, Michael; Fischer, Reiner; Bretschneider, Thomas; Erdelen, Christoph; Wachendorff-Neumann, Ulrike; Santel, Hans-Joachim; Dollinger, Markus; Graff, Alan; Mencke, Norbert; Turberg, Andreas; Dahmen, Peter

PATENT ASSIGNEE(S): Bayer A.-G., Germany

SOURCE: Ger. Offen., 94 pp.

CODEN: GWXXBX

DOCUMENT TYPE:

Patent

LANGUAGE

German

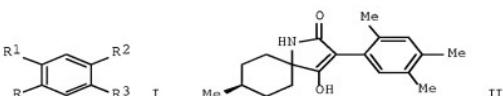
LANGUAGE : FAMILY ACC NUM COUNT :

FAMILY ACC. NUM. CO
PATENT INFORMATION

OTHER SOURCE(S) :

MABPAT 126:144113

61
GI



AB Title compds. [I; R = 4-(O-acyl)hydroxy-2-oxo-3-pyrrolinyl, 2,5-dihydro-3-furyl, 2,5-dihydro-3-thienyl, etc.; R1 = halo, alkyl, alkoxy, etc.; R2 = H, halo, alkyl, alkoxy, etc.; R3 = halo, alkyl, alkoxy, etc.] were prepared

Thus, 2,4,5-Me3C6H2CH2CO2H (preparation given) was amidated by Me cis-1-amino-4-methylcyclohexanecarboxylate and the product cyclized to give title compound II. Data for biol. activity of I were given.

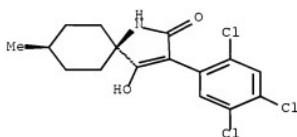
IT 186647-43-8P 186647-47-2P 186647-52-9P
186647-56-3P 186647-62-1P 186647-65-4P

RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses) (preparation of 3-phenylheterocycloalkyl-2,4-dione enols as herbicides and pesticides)

RN 186647-43-8 CAPLUS

CN 1-Azaspido[4.5]dec-3-en-2-one, 4-hydroxy-8-methyl-3-(2,4,5-trichlorophenyl)-, (5 α ,8 α)- (CA INDEX NAME)

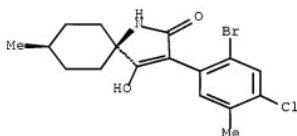
Relative stereochemistry.



RN 186647-47-2 CAPLUS

CN 1-Azaspido[4.5]dec-3-en-2-one, 3-(2-bromo-4-chloro-5-methylphenyl)-4-hydroxy-8-methyl-, (5 α ,8 α)- (CA INDEX NAME)

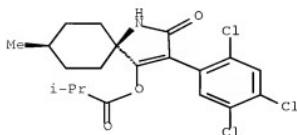
Relative stereochemistry.



RN 186647-52-9 CAPLUS

CN Propanoic acid, 2-methyl-, (5 α ,8 α)-8-methyl-2-oxo-3-(2,4,5-trichlorophenyl)-1-azaspido[4.5]dec-3-en-4-yl ester (CA INDEX NAME)

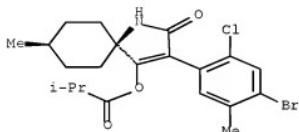
Relative stereochemistry.



RN 186647-56-3 CAPLUS

CN Propanoic acid, 2-methyl-, (5 α ,8 α)-3-(4-bromo-2-chloro-5-methylphenyl)-8-methyl-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ester (CA INDEX NAME)

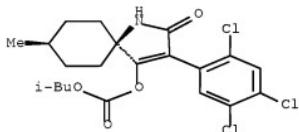
Relative stereochemistry.



RN 186647-62-1 CAPLUS

CN Carbonic acid, 8-methyl-2-oxo-3-(2,4,5-trichlorophenyl)-1-azaspiro[4.5]dec-3-en-4-yl 2-methylpropyl ester, cis- (9CI) (CA INDEX NAME)

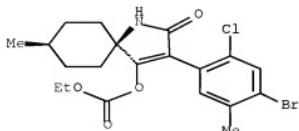
Relative stereochemistry.



RN 186647-65-4 CAPLUS

CN Carbonic acid, 3-(4-bromo-2-chloro-5-methylphenyl)-8-methyl-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ethyl ester, cis- (9CI) (CA INDEX NAME)

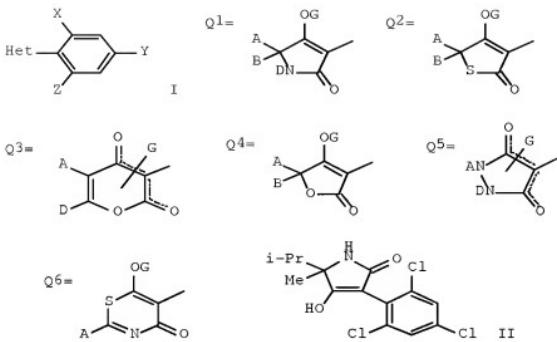
Relative stereochemistry.



DOCUMENT NUMBER: 126:74741
 ORIGINAL REFERENCE NO.: 126:14465a,14468a
 TITLE: Alkyl dihalogenated phenyl-substituted keto enols useful as pesticides and herbicides
 INVENTOR(S): Lieb, Folker; Hagemann, Hermann; Widdig, Arno; Ruther, Michael; Fischer, Reiner; Bretschneider, Thomas; Erdelen, Christoph; Wachendorff-Neumann, Ulrike; Dahmen, Peter; Dollinger, Markus; Santel, Hans-Joachim; et al.
 PATENT ASSIGNEE(S): Bayer A.-G., Germany; Lieb, Folker; Hagemann, Hermann; Widdig, Arno; Ruther, Michael; Fischer, Reiner; Bretschneider, Thomas; Erdelen, Christoph; Wachendorff-Neumann, Ulrike; et al.
 SOURCE: PCT Int. Appl., 231 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: German
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9635664	A1	19961114	WO 1996-EP1781	19960429
W: AU, BB, BG, PL, RO, RU, RW: AT, BE, CH, SE, BF, BJ,	BR, BY, CA, CN, SK, TR, UA, US	CZ, HU, JP, KR, KZ, LK, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, PT, TG		
DE 19545467	A1	19961114	DE 1995-19545467	19951206
IN 1996DE00865	A	20050311	IN 1996-DE865	19960423
CA 2220440	A1	19961114	CA 1996-2220440	19960429
AU 9657626	A	19961129	AU 1996-57626	19960429
EP 825982	A1	19980304	EP 1996-914146	19960429
EP 825982	B1	20021127		
R: BE, CH, DE, CN 1189153	ES, FR, GB, IT, A	LI, NL 19980729	CN 1996-195072	19960429
CN 1131209	C	20031217		
BR 9608229	A	19981229	BR 1996-8229	19960429
JP 11505220	T	19990518	JP 1996-533707	19960429
JP 4153033	B2	20080917		
ES 2184858	T3	20030416	ES 1996-914146	19960429
CN 1473814	A	20040211	CN 2003-2003136022	19960429
CN 1221514	C	20051005		
ZA 9603633	A	19961125	ZA 1996-3633	19960508
US 6316486	B1	20011113	US 1997-945664	19971031
US 6380246	B1	20020430	US 1999-404424	19990923
US 20030199572	A1	20031023	US 2001-17695	20011214
US 6858741	B2	20050222		
US 20050164885	A1	20050728	US 2004-903550	20040730
PRIORITY APPLN. INFO.:			DE 1995-19516258	A 19950509
			DE 1995-19545467	A 19951206
			WO 1996-EP1781	W 19960429
			US 1997-945664	B3 19971031
			US 1997-945665	A3 19971031
			US 1999-404424	A3 19990923
			US 2001-17695	A3 20011214

OTHER SOURCE(S): MARPAT 126:74741
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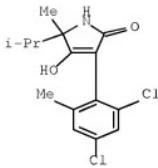
AB Title compds. I [X = halo, Y, Z = halo or alkyl, provided that 1 of Y and Z always = halo, and the other = alkyl; Het = 1 of the heterocyclic groups Q1-Q6; A = H, (halo)alkyl, alkenyl, alkoxyalkyl, (un)substituted cycloalkyl or heterocyclyl, etc.; B = H, alkyl, alkoxyalkyl; D = H, (un)substituted alk(en/yn)yl, alkoxyalkyl, cycloalkyl, aralkyl, heterocyclyl, aryl, etc.; A and B, or A and D, may form (un)substituted carbo- or heterocyclic rings; G = various acyl, sulfonyl, or phosphoryl substituents, or metal or ammonium ions] are prepared. Also disclosed are several processes for preparing the compds., and their use as pesticides and herbicides. For example, amidation of 2,4-dichloro-6-methylphenylacetic acid with H₂N(Me)(i-Pr)CN via the acid chloride using SOC12 (81%), followed by alcoholysis of the nitrile using H₂SO₄ and MeOH quench (73%), and cyclization of the resultant ester with KOBu-tert in THF (73%), gave title compound II. In a test against *Myzus persicae* at 0.1%, II gave 100% kill in 6 days. At 250 g/ha preemergence, selected I gave 80-100% kill of 4 weeds with 0-50% damage to *Beta vulgaris*.

IT 185150-03-2P 185150-06-5P 185150-21-4P

RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); RCT (Reactant); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)
(preparation of alkylidihalophenyl-substituted keto enols as pesticides and herbicides)

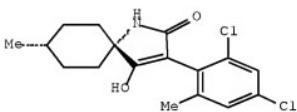
RN 185150-03-2 CAPLUS

CN 2H-Pyrrol-2-one, 3-(2,4-dichloro-6-methylphenyl)-1,5-dihydro-4-hydroxy-5-methyl-5-(1-methylethyl)- (CA INDEX NAME)

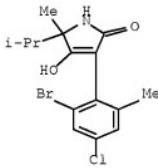


RN 185150-06-5 CAPLUS
 CN 1-Azaspiro[4.5]dec-3-en-2-one, 3-(2,4-dichloro-6-methylphenyl)-4-hydroxy-8-methyl-, (5a,8a)- (CA INDEX NAME)

Relative stereochemistry.



RN 185150-21-4 CAPLUS
 CN 2H-Pyrrol-2-one, 3-(2-bromo-4-chloro-6-methylphenyl)-1,5-dihydro-4-hydroxy-5-methyl-5-(1-methylethyl)- (CA INDEX NAME)



IT	185150-04-3P	185150-05-4P	185150-07-6P
	185150-08-7P	185150-09-8P	185150-10-1P
	185150-11-2P	185150-12-JP	185150-13-9P
	185150-14-5P	185150-17-9P	185150-18-3P
	185150-19-0P	185150-20-3P	185150-22-5P
	185150-23-6P	185150-24-7P	185150-25-8P
	185150-26-9P	185150-27-0P	185150-29-2P
	185150-30-5P	185150-31-6P	185150-32-7P
	185150-33-8P	185150-34-9P	185150-35-0P
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	185150-40-7P	185150-41-8P	185150-42-9P

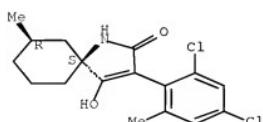
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 185151-62-6P 185151-64-8P 185151-65-9P
 185151-66-0P

RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses) (preparation of alkylidihalophenyl-substituted keto enols as pesticides and herbicides)

RN 185150-04-3 CAPLUS

CN 1-Azaspido[4.5]dec-3-en-2-one, 3-(2,4-dichloro-6-methylphenyl)-4-hydroxy-7-methyl-, (5R,7S)-rel- (CA INDEX NAME)

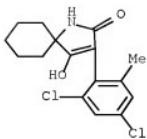
Relative stereochemistry.



RN 185150-05-4 CAPLUS

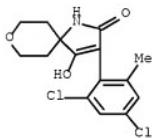
CN 1-Azaspido[4.5]dec-3-en-2-one, 3-(2,4-dichloro-6-methylphenyl)-4-hydroxy-

(CA INDEX NAME)



RN 185150-07-6 CAPLUS

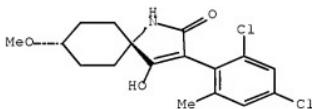
CN 8-Oxa-1-azaspiro[4.5]dec-3-en-2-one,
3-(2,4-dichloro-6-methylphenyl)-4-hydroxy- (CA INDEX NAME)



RN 185150-08-7 CAPLUS

CN 1-Azaspiro[4.5]dec-3-en-2-one, 3-(2,4-dichloro-6-methylphenyl)-4-hydroxy-8-methoxy-, (5a,8a)- (CA INDEX NAME)

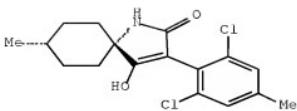
Relative stereochemistry.



RN 185150-09-8 CAPLUS

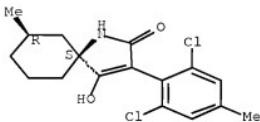
CN 1-Azaspiro[4.5]dec-3-en-2-one, 3-(2,6-dichloro-4-methylphenyl)-4-hydroxy-8-methyl-, (5a,8a)- (CA INDEX NAME)

Relative stereochemistry.

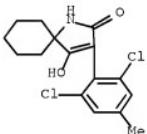


RN 185150-10-1 CAPLUS
CN 1-Azaspiro[4.5]dec-3-en-2-one, 3-(2,6-dichloro-4-methylphenyl)-4-hydroxy-7-methyl-, (5R,7S)-rel- (CA INDEX NAME)

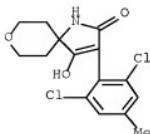
Relative stereochemistry.



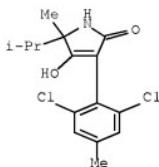
RN 185150-11-2 CAPLUS
CN 1-Azaspiro[4.5]dec-3-en-2-one, 3-(2,6-dichloro-4-methylphenyl)-4-hydroxy- (CA INDEX NAME)



RN 185150-12-3 CAPLUS
CN 8-Oxa-1-azaspiro[4.5]dec-3-en-2-one,
3-(2,6-dichloro-4-methylphenyl)-4-hydroxy- (CA INDEX NAME)

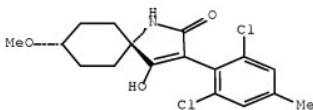


RN 185150-13-4 CAPLUS
CN 2H-Pyrrol-2-one, 3-(2,6-dichloro-4-methylphenyl)-1,5-dihydro-4-hydroxy-5-methyl-5-(1-methylethyl)- (CA INDEX NAME)



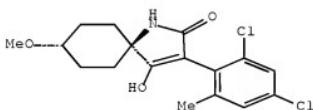
RN 185150-14-5 CAPLUS
CN 1-Azaspido[4.5]dec-3-en-2-one, 3-(2,6-dichloro-4-methylphenyl)-4-hydroxy-8-methoxy-, (5a,8a)- (CA INDEX NAME)

Relative stereochemistry.



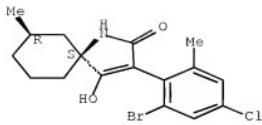
RN 185150-17-8 CAPLUS
CN 1-Azaspido[4.5]dec-3-en-2-one, 3-(2,4-dichloro-6-methylphenyl)-4-hydroxy-8-methoxy-, (5a,8β)- (CA INDEX NAME)

Relative stereochemistry.



RN 185150-18-9 CAPLUS
CN 1-Azaspido[4.5]dec-3-en-2-one, 3-(2-bromo-4-chloro-6-methylphenyl)-4-hydroxy-7-methyl-, (5R,7S)-rel- (CA INDEX NAME)

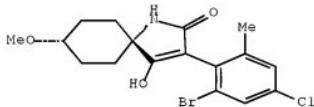
Relative stereochemistry.



RN 185150-19-0 CAPLUS

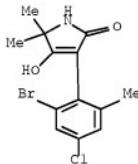
CN 1-Azaspiro[4.5]dec-3-en-2-one, 3-(2-bromo-4-chloro-6-methylphenyl)-4-hydroxy-8-methoxy-, (5a,8a)- (CA INDEX NAME)

Relative stereochemistry.



RN 185150-20-3 CAPLUS

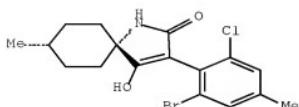
CN 2H-Pyrrol-2-one, 3-(2-bromo-4-chloro-6-methylphenyl)-1,5-dihydro-4-hydroxy-5,5-dimethyl- (CA INDEX NAME)



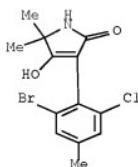
RN 185150-22-5 CAPLUS

CN 1-Azaspiro[4.5]dec-3-en-2-one, 3-(2-bromo-6-chloro-4-methylphenyl)-4-hydroxy-8-methyl-, (5a,8a)- (CA INDEX NAME)

Relative stereochemistry.

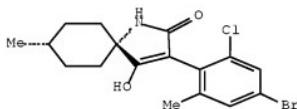


RN 185150-23-6 CAPLUS
CN 2H-Pyrrol-2-one, 3-(2-bromo-6-chloro-4-methylphenyl)-1,5-dihydro-4-hydroxy-5,5-dimethyl- (CA INDEX NAME)

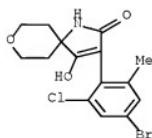


RN 185150-24-7 CAPLUS
CN 1-Azaspiro[4.5]dec-3-en-2-one, 3-(4-bromo-2-chloro-6-methylphenyl)-4-hydroxy-8-methyl-, (5a,8a)- (CA INDEX NAME)

Relative stereochemistry.

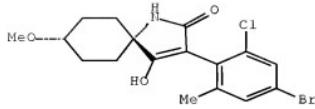


RN 185150-25-8 CAPLUS
CN 8-Oxa-1-azaspiro[4.5]dec-3-en-2-one, 3-(4-bromo-2-chloro-6-methylphenyl)-4-hydroxy- (CA INDEX NAME)



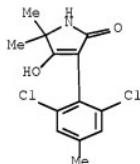
RN 185150-26-9 CAPLUS
CN 1-Azaspiro[4.5]dec-3-en-2-one, 3-(4-bromo-2-chloro-6-methylphenyl)-4-hydroxy-8-methoxy-, (5a,8a)- (CA INDEX NAME)

Relative stereochemistry.



RN 185150-27-0 CAPLUS

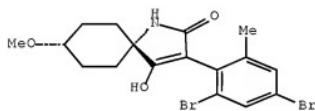
CN 2H-Pyrrol-2-one, 3-(2,6-dichloro-4-methylphenyl)-1,5-dihydro-4-hydroxy-5,5-dimethyl- (CA INDEX NAME)



RN 185150-29-2 CAPLUS

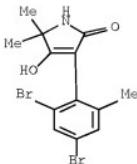
CN 1-Azaspiro[4.5]dec-3-en-2-one, 3-(2,4-dibromo-6-methylphenyl)-4-hydroxy-8-methoxy-, (5a,8a)- (CA INDEX NAME)

Relative stereochemistry.

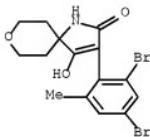


RN 185150-30-5 CAPLUS

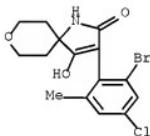
CN 2H-Pyrrol-2-one, 3-(2,4-dibromo-6-methylphenyl)-1,5-dihydro-4-hydroxy-5,5-dimethyl- (CA INDEX NAME)



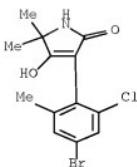
RN 185150-31-6 CAPLUS
CN 8-Oxa-1-azaspiro[4.5]dec-3-en-2-one,
3-(2,4-dibromo-6-methylphenyl)-4-hydroxy- (CA INDEX NAME)



RN 185150-32-7 CAPLUS
CN 8-Oxa-1-azaspiro[4.5]dec-3-en-2-one,
3-(2-bromo-4-chloro-6-methylphenyl)-4-hydroxy- (CA INDEX NAME)

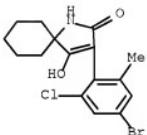


RN 185150-33-8 CAPLUS
CN 2H-Pyrrol-2-one, 3-(4-bromo-2-chloro-6-methylphenyl)-1,5-dihydro-4-hydroxy-
5,5-dimethyl- (CA INDEX NAME)



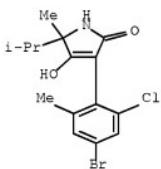
RN 185150-34-9 CAPLUS

CN 1-Azaspiro[4.5]dec-3-en-2-one, 3-(4-bromo-2-chloro-6-methylphenyl)-4-hydroxy- (CA INDEX NAME)



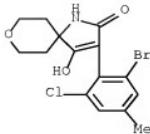
RN 185150-35-0 CAPLUS

CN 2H-Pyrrol-2-one, 3-(4-bromo-2-chloro-6-methylphenyl)-1,5-dihydro-4-hydroxy-5-methyl-5-(1-methylethyl)- (CA INDEX NAME)



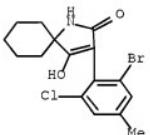
RN 185150-37-2 CAPLUS

CN 8-Oxa-1-azaspiro[4.5]dec-3-en-2-one, 3-(2-bromo-6-chloro-4-methylphenyl)-4-hydroxy- (CA INDEX NAME)



RN 185150-38-3 CAPLUS

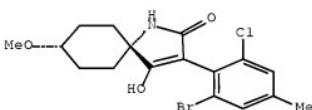
CN 1-Azaspiro[4.5]dec-3-en-2-one, 3-(2-bromo-6-chloro-4-methylphenyl)-4-hydroxy- (CA INDEX NAME)



RN 185150-39-4 CAPLUS

CN 1-Azaspiro[4.5]dec-3-en-2-one, 3-(2-bromo-6-chloro-4-methylphenyl)-4-hydroxy-8-methoxy-, (5a,8a)- (CA INDEX NAME)

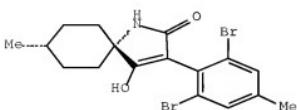
Relative stereochemistry.



RN 185150-40-7 CAPLUS

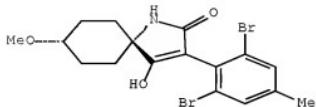
CN 1-Azaspiro[4.5]dec-3-en-2-one, 3-(2,6-dibromo-4-methylphenyl)-4-hydroxy-8-methyl-, (5a,8a)- (CA INDEX NAME)

Relative stereochemistry.

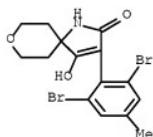


RN 185150-41-8 CAPLUS
CN 1-Azaspiro[4.5]dec-3-en-2-one, 3-(2,6-dibromo-4-methylphenyl)-4-hydroxy-8-methoxy-, (5*a*,8*a*)- (CA INDEX NAME)

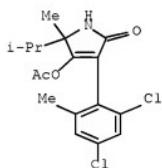
Relative stereochemistry.



RN 185150-42-9 CAPLUS
CN 8-Oxa-1-azaspiro[4.5]dec-3-en-2-one,
3-(2,6-dibromo-4-methylphenyl)-4-hydroxy- (CA INDEX NAME)

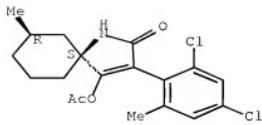


RN 185150-43-0 CAPLUS
CN 2H-Pyrrol-2-one, 4-(acetyloxy)-3-(2,4-dichloro-6-methylphenyl)-1,5-dihydro-5-methyl-5-(1-methylethyl)- (CA INDEX NAME)



RN 185150-44-1 CAPLUS
CN 1-Azaspiro[4.5]dec-3-en-2-one, 4-(acetyloxy)-3-(2,4-dichloro-6-methylphenyl)-7-methyl-, (5R,7S)-rel- (CA INDEX NAME)

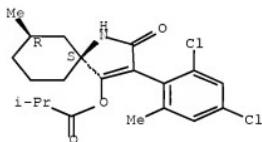
Relative stereochemistry.



RN 185150-45-2 CAPLUS

CN Propanoic acid, 2-methyl-, (5S,7R)-3-(2,4-dichloro-6-methylphenyl)-7-methyl-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ester, rel- (CA INDEX NAME)

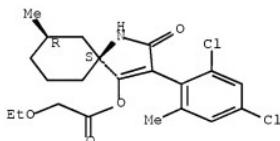
Relative stereochemistry.



RN 185150-46-3 CAPLUS

CN Acetic acid, 2-ethoxy-, (5S,7R)-3-(2,4-dichloro-6-methylphenyl)-7-methyl-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ester, rel- (CA INDEX NAME)

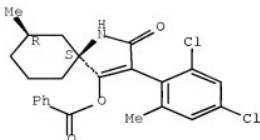
Relative stereochemistry.



RN 185150-47-4 CAPLUS

CN 1-Azaspiro[4.5]dec-3-en-2-one, 4-(benzoyloxy)-3-(2,4-dichloro-6-methylphenyl)-7-methyl-, (5R,7S)-rel- (CA INDEX NAME)

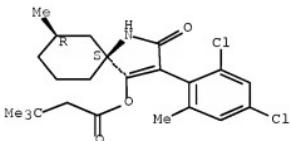
Relative stereochemistry.



RN 185150-48-5 CAPLUS

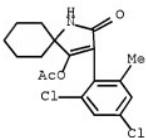
CN Butanoic acid, 3,3-dimethyl-, (5S,7R)-3-(2,4-dichloro-6-methylphenyl)-7-methyl-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ester, rel- (CA INDEX NAME)

Relative stereochemistry.



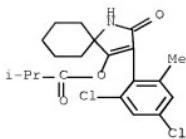
RN 185150-49-6 CAPLUS

CN 1-Azaspiro[4.5]dec-3-en-2-one, 4-(acetyloxy)-3-(2,4-dichloro-6-methylphenyl)- (CA INDEX NAME)

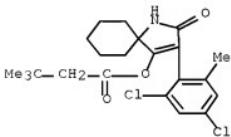


RN 185150-50-9 CAPLUS

CN Propanoic acid, 2-methyl-, 3-(2,4-dichloro-6-methylphenyl)-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ester (CA INDEX NAME)

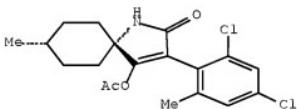


RN 185150-51-0 CAPLUS
 CN Butanoic acid, 3,3-dimethyl-, 3-(2,4-dichloro-6-methylphenyl)-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ester (CA INDEX NAME)



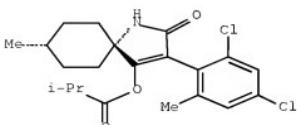
RN 185150-52-1 CAPLUS
 CN 1-Azaspido[4.5]dec-3-en-2-one, 4-(acetyloxy)-3-(2,4-dichloro-6-methylphenyl)-8-methyl-, (5a,8a)- (CA INDEX NAME)

Relative stereochemistry.



RN 185150-53-2 CAPLUS
 CN Propanoic acid, 2-methyl-, (5a,8a)-3-(2,4-dichloro-6-methylphenyl)-8-methyl-2-oxo-1-azaspido[4.5]dec-3-en-4-yl ester (CA INDEX NAME)

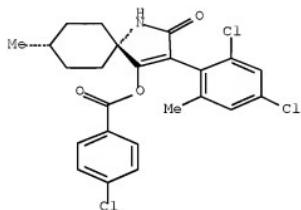
Relative stereochemistry.



RN 185150-54-3 CAPLUS

CN Benzoic acid, 4-chloro-, (5a,8a)-3-(2,4-dichloro-6-methylphenyl)-8-methyl-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ester (CA INDEX NAME)

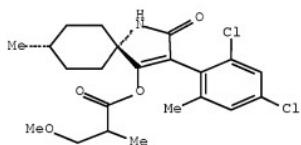
Relative stereochemistry.



RN 185150-55-4 CAPLUS

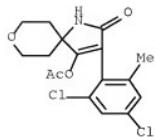
CN Propanoic acid, 3-methoxy-2-methyl-,
(5a,8a)-3-(2,4-dichloro-6-methylphenyl)-8-methyl-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ester (CA INDEX NAME)

Relative stereochemistry.



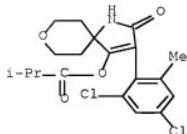
RN 185150-56-5 CAPLUS

CN 8-Oxa-1-azaspiro[4.5]dec-3-en-2-one,
4-(acetoxy)-3-(2,4-dichloro-6-methylphenyl)- (CA INDEX NAME)



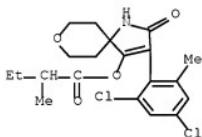
RN 185150-57-6 CAPLUS

CN Propanoic acid, 2-methyl-, 3-(2,4-dichloro-6-methylphenyl)-2-oxo-8-oxa-1-azaspiro[4.5]dec-3-en-4-yl ester (CA INDEX NAME)



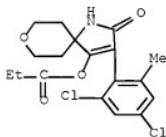
RN 185150-58-7 CAPLUS

CN Butanoic acid, 2-methyl-, 3-(2,4-dichloro-6-methylphenyl)-2-oxo-8-oxa-1-azaspiro[4.5]dec-3-en-4-yl ester (CA INDEX NAME)



RN 185150-59-8 CAPLUS

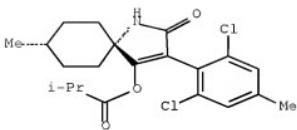
CN 8-Oxa-1-azaspiro[4.5]dec-3-en-2-one, 3-(2,4-dichloro-6-methylphenyl)-4-(1-oxopropoxy)- (CA INDEX NAME)



RN 185150-60-1 CAPLUS

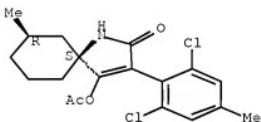
CN Propanoic acid, 2-methyl-, (5a,8a)-3-(2,6-dichloro-4-methylphenyl)-8-methyl-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ester (CA INDEX NAME)

Relative stereochemistry.



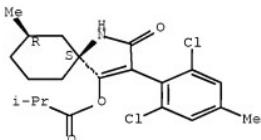
RN 185150-61-2 CAPLUS
 CN 1-Azaspiro[4.5]dec-3-en-2-one, 4-(acetyloxy)-3-(2,6-dichloro-4-methylphenyl)-7-methyl-, (5R,7S)-rel- (CA INDEX NAME)

Relative stereochemistry.

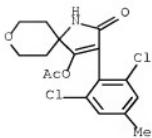


RN 185150-62-3 CAPLUS
 CN Propanoic acid, 2-methyl-, (5S,7R)-3-(2,6-dichloro-4-methylphenyl)-7-methyl-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ester, rel- (CA INDEX NAME)

Relative stereochemistry.

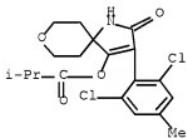


RN 185150-63-4 CAPLUS
 CN 8-Oxa-1-azaspiro[4.5]dec-3-en-2-one, 4-(acetyloxy)-3-(2,6-dichloro-4-methylphenyl)- (CA INDEX NAME)



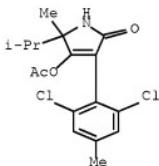
RN 185150-64-5 CAPLUS

CN Propanoic acid, 2-methyl-, 3-(2,6-dichloro-4-methylphenyl)-2-oxo-8-oxa-1-azaspiro[4.5]dec-3-en-4-yl ester (CA INDEX NAME)



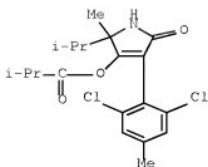
RN 185150-65-6 CAPLUS

CN 2H-Pyrrol-2-one, 4-(acetoxy)-3-(2,6-dichloro-4-methylphenyl)-1,5-dihydro-5-methyl-5-(1-methylethyl)- (CA INDEX NAME)



RN 185150-66-7 CAPLUS

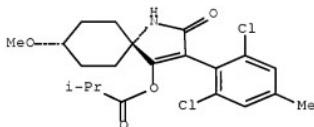
CN Propanoic acid, 2-methyl-, 4-(2,6-dichloro-4-methylphenyl)-2,5-dihydro-2-methyl-2-(1-methylethyl)-5-oxo-1H-pyrrol-3-yl ester (CA INDEX NAME)



RN 185150-67-8 CAPLUS

CN Propanoic acid, 2-methyl-, (5a,8a)-3-(2,6-dichloro-4-methylphenyl)-8-methoxy-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ester (CA INDEX NAME)

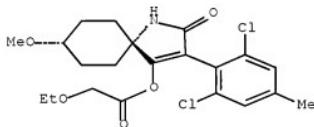
Relative stereochemistry.



RN 185150-68-9 CAPLUS

CN Acetic acid, 2-ethoxy-, (5a,8a)-3-(2,6-dichloro-4-methylphenyl)-8-methoxy-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ester (CA INDEX NAME)

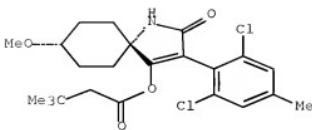
Relative stereochemistry.



RN 185150-69-0 CAPLUS

CN Butanoic acid, 3,3-dimethyl-, (5a,8a)-3-(2,6-dichloro-4-methylphenyl)-8-methoxy-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ester (CA INDEX NAME)

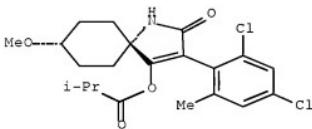
Relative stereochemistry.



RN 185150-70-3 CAPLUS

CN Propanoic acid, 2-methyl-, (5a,8a)-3-(2,4-dichloro-6-methylphenyl)-8-methoxy-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ester (CA INDEX NAME)

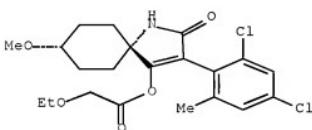
Relative stereochemistry.



RN 185150-71-4 CAPLUS

CN Acetic acid, 2-ethoxy-, (5a,8a)-3-(2,4-dichloro-6-methylphenyl)-8-methoxy-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ester (CA INDEX NAME)

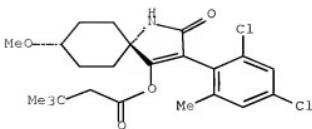
Relative stereochemistry.



RN 185150-72-5 CAPLUS

CN Butanoic acid, 3,3-dimethyl-, (5a,8a)-3-(2,4-dichloro-6-methylphenyl)-8-methoxy-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ester (CA INDEX NAME)

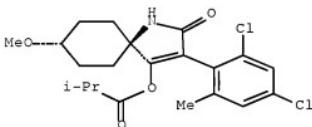
Relative stereochemistry.



RN 185150-73-6 CAPLUS

CN Propanoic acid, 2-methyl-, (5 α ,8 β)-3-(2,4-dichloro-6-methylphenyl)-8-methoxy-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ester (CA INDEX NAME)

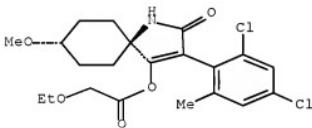
Relative stereochemistry.



RN 185150-74-7 CAPLUS

CN Acetic acid, 2-ethoxy-, (5 α ,8 β)-3-(2,4-dichloro-6-methylphenyl)-8-methoxy-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ester (CA INDEX NAME)

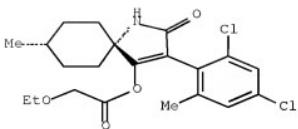
Relative stereochemistry.



RN 185150-75-8 CAPLUS

CN Acetic acid, 2-ethoxy-, (5 α ,8 α)-3-(2,4-dichloro-6-methylphenyl)-8-methoxy-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ester (CA INDEX NAME)

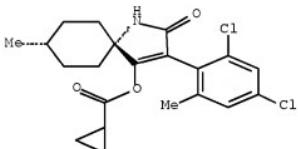
Relative stereochemistry.



RN 185150-76-9 CAPLUS

CN Cyclopropanecarboxylic acid, (5 α ,8 α)-3-(2,4-dichloro-6-methylphenyl)-8-methyl-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ester (CA INDEX NAME)

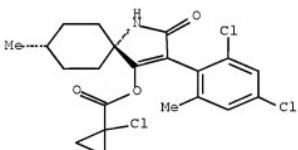
Relative stereochemistry.



RN 185150-77-0 CAPLUS

CN Cyclopropanecarboxylic acid, 1-chloro-, (5 α ,8 α)-3-(2,4-dichloro-6-methylphenyl)-8-methyl-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ester (CA INDEX NAME)

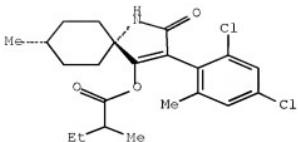
Relative stereochemistry.



RN 185150-78-1 CAPLUS

CN Butanoic acid, 2-methyl-, (5 α ,8 α)-3-(2,4-dichloro-6-methylphenyl)-8-methyl-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ester (CA INDEX NAME)

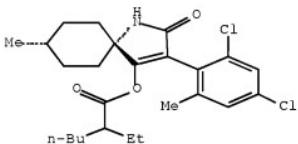
Relative stereochemistry.



RN 185150-79-2 CAPLUS

CN Hexanoic acid, 2-ethyl-, (5a,8a)-3-(2,4-dichloro-6-methylphenyl)-8-methyl-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ester (CA INDEX NAME)

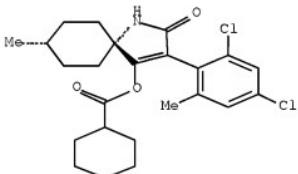
Relative stereochemistry.



RN 185150-80-5 CAPLUS

CN Cyclohexanecarboxylic acid, (5a,8a)-3-(2,4-dichloro-6-methylphenyl)-8-methyl-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ester (CA INDEX NAME)

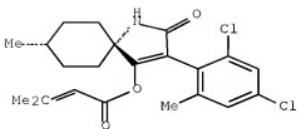
Relative stereochemistry.



RN 185150-81-6 CAPLUS

CN 2-Butenoic acid, 3-methyl-, (5a,8a)-3-(2,4-dichloro-6-methylphenyl)-8-methyl-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ester (CA INDEX NAME)

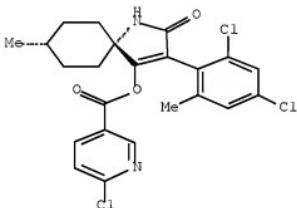
Relative stereochemistry.



RN 185150-82-7 CAPLUS

CN 3-Pyridinecarboxylic acid, 6-chloro-,
 $(5a,8a)$ -3-(2,4-dichloro-6-methylphenyl)-8-methyl-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ester (CA INDEX NAME)

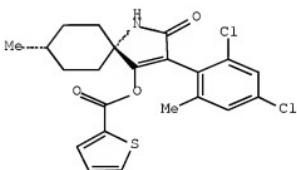
Relative stereochemistry.



RN 185150-83-8 CAPLUS

CN 2-Thiophencarboxylic acid, (5a,8a)-3-(2,4-dichloro-6-methylphenyl)-8-methyl-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ester (CA INDEX NAME)

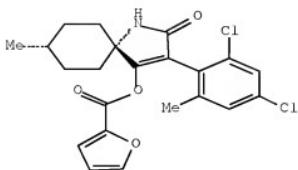
Relative stereochemistry.



RN 185150-84-9 CAPLUS

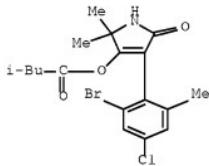
CN 2-Furancarboxylic acid, (5a,8a)-3-(2,4-dichloro-6-methylphenyl)-8-methyl-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ester (CA INDEX NAME)

Relative stereochemistry.



RN 185150-86-1 CAPLUS

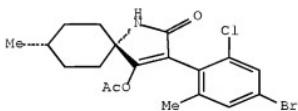
CN Butanoic acid, 3-methyl-, 4-(2-bromo-4-chloro-6-methylphenyl)-2,5-dihydro-2,2-dimethyl-5-oxo-1H-pyrrol-3-yl ester (CA INDEX NAME)



RN 185150-87-2 CAPLUS

CN 1-Azaspiro[4.5]dec-3-en-2-one, 4-(acetyloxy)-3-(4-bromo-2-chloro-6-methylphenyl)-8-methyl-, (5a,8a)- (CA INDEX NAME)

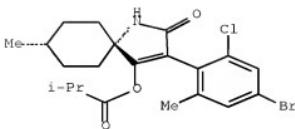
Relative stereochemistry.



RN 185150-88-3 CAPLUS

CN Propanoic acid, 2-methyl-, (5a,8a)-3-(4-bromo-2-chloro-6-methylphenyl)-8-methyl-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ester (CA INDEX NAME)

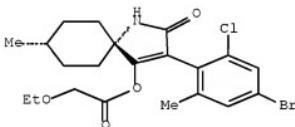
Relative stereochemistry.



RN 185150-89-4 CAPLUS

CN Acetic acid, 2-ethoxy-, (5a,8a)-3-(4-bromo-2-chloro-6-methylphenyl)-8-methyl-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ester (CA INDEX NAME)

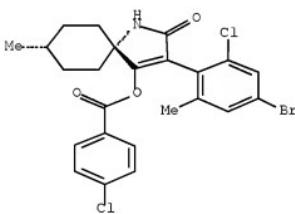
Relative stereochemistry.



RN 185150-90-7 CAPLUS

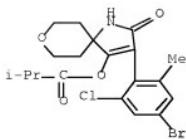
CN Benzoic acid, 4-chloro-, (5a,8a)-3-(4-bromo-2-chloro-6-methylphenyl)-8-methyl-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ester (CA INDEX NAME)

Relative stereochemistry.



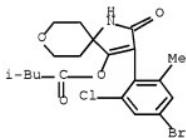
RN 185150-91-8 CAPLUS

CN Propanoic acid, 2-methyl-, 3-(4-bromo-2-chloro-6-methylphenyl)-2-oxo-8-oxa-1-azaspiro[4.5]dec-3-en-4-yl ester (CA INDEX NAME)



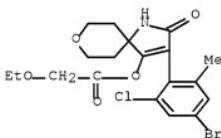
RN 185150-92-9 CAPLUS

CN Butanoic acid, 3-methyl-, 3-(4-bromo-2-chloro-6-methylphenyl)-2-oxo-8-oxa-1-azaspiro[4.5]dec-3-en-4-yl ester (CA INDEX NAME)



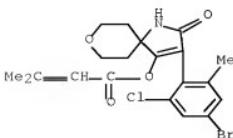
RN 185150-93-0 CAPLUS

CN Acetic acid, 2-ethoxy-, 3-(4-bromo-2-chloro-6-methylphenyl)-2-oxo-8-oxa-1-azaspiro[4.5]dec-3-en-4-yl ester (CA INDEX NAME)



RN 185150-94-1 CAPLUS

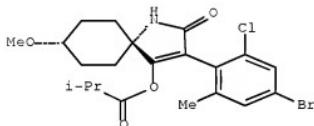
CN 2-Butenoic acid, 3-methyl-, 3-(4-bromo-2-chloro-6-methylphenyl)-2-oxo-8-oxa-1-azaspiro[4.5]dec-3-en-4-yl ester (CA INDEX NAME)



RN 185150-95-2 CAPLUS

CN Propanoic acid, 2-methyl-, (5 α ,8 α)-3-(4-bromo-2-chloro-6-methylphenyl)-8-methoxy-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ester (CA INDEX NAME)

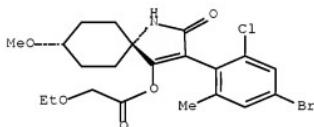
Relative stereochemistry.



RN 185150-96-3 CAPLUS

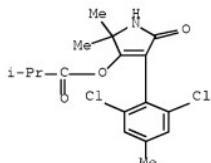
CN Acetic acid, 2-ethoxy-, (5 α ,8 α)-3-(4-bromo-2-chloro-6-methylphenyl)-8-methoxy-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ester (CA INDEX NAME)

Relative stereochemistry.



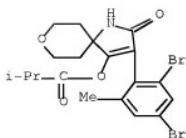
RN 185150-97-4 CAPLUS

CN Propanoic acid, 2-methyl-, 4-(2,6-dichloro-4-methylphenyl)-2,5-dihydro-2,2-dimethyl-5-oxo-1H-pyrrol-3-yl ester (CA INDEX NAME)

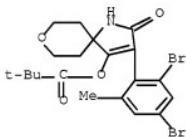


RN 185151-00-2 CAPLUS

CN Propanoic acid, 2-methyl-, 3-(2,4-dibromo-6-methylphenyl)-2-oxo-8-oxa-1-azaspiro[4.5]dec-3-en-4-yl ester (CA INDEX NAME)

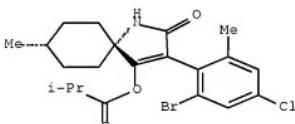


RN 185151-01-3 CAPLUS
 CN Propanoic acid, 2,2-dimethyl-, 3-(2,4-dibromo-6-methylphenyl)-2-oxo-8-oxa-1-azaspiro[4.5]dec-3-en-4-yl ester (CA INDEX NAME)



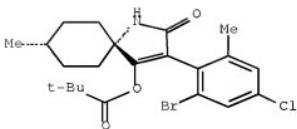
RN 185151-02-4 CAPLUS
 CN Propanoic acid, 2-methyl-, (5a,8a)-3-(2-bromo-4-chloro-6-methylphenyl)-8-methyl-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ester (CA INDEX NAME)

Relative stereochemistry.



RN 185151-03-5 CAPLUS
 CN Propanoic acid, 2,2-dimethyl-, (5a,8a)-3-(2-bromo-4-chloro-6-methylphenyl)-8-methyl-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ester (CA INDEX NAME)

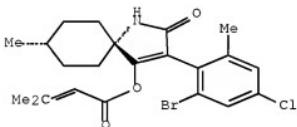
Relative stereochemistry.



RN 185151-04-6 CAPLUS

CN 2-Butenoic acid, 3-methyl-, (5a,8a)-3-(2-bromo-4-chloro-6-methylphenyl)-8-methyl-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ester (CA INDEX NAME)

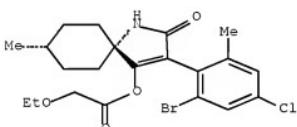
Relative stereochemistry.



RN 185151-05-7 CAPLUS

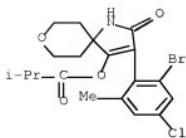
CN Acetic acid, 2-ethoxy-, (5a,8a)-3-(2-bromo-4-chloro-6-methylphenyl)-8-methyl-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ester (CA INDEX NAME)

Relative stereochemistry.



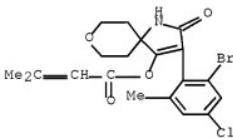
RN 185151-06-8 CAPLUS

CN Propanoic acid, 2-methyl-, 3-(2-bromo-4-chloro-6-methylphenyl)-2-oxo-8-oxa-1-azaspiro[4.5]dec-3-en-4-yl ester (CA INDEX NAME)



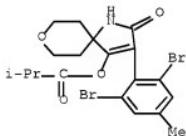
RN 185151-07-9 CAPLUS

CN 2-Butenoic acid, 3-methyl-, 3-(2-bromo-4-chlorophenyl)-2-oxo-8-oxa-1-azaspiro[4.5]dec-3-en-4-yl ester (CA INDEX NAME)



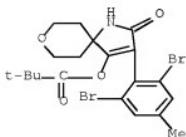
RN 185151-08-0 CAPLUS

CN Propanoic acid, 2-methyl-, 3-(2,6-dibromo-4-methylphenyl)-2-oxo-8-oxa-1-azaspiro[4.5]dec-3-en-4-yl ester (CA INDEX NAME)



RN 185151-09-1 CAPLUS

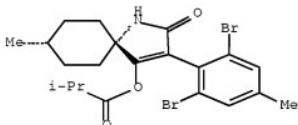
CN Propanoic acid, 2,2-dimethyl-, 3-(2,6-dibromo-4-methylphenyl)-2-oxo-8-oxa-1-azaspiro[4.5]dec-3-en-4-yl ester (CA INDEX NAME)



RN 185151-10-4 CAPLUS

CN Propanoic acid, 2-methyl-, (5 α ,8 α)-3-(2,6-dibromo-4-methylphenyl)-8-methyl-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ester (CA INDEX NAME)

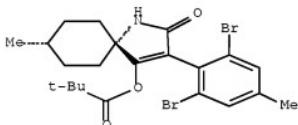
Relative stereochemistry.



RN 185151-11-5 CAPLUS

CN Propanoic acid, 2,2-dimethyl-, (5 α ,8 α)-3-(2,6-dibromo-4-methylphenyl)-8-methyl-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ester (CA INDEX NAME)

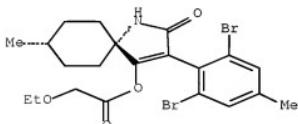
Relative stereochemistry.



RN 185151-12-6 CAPLUS

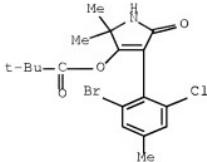
CN Acetic acid, 2-ethoxy-, (5 α ,8 α)-3-(2,6-dibromo-4-methylphenyl)-8-methyl-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ester (CA INDEX NAME)

Relative stereochemistry.



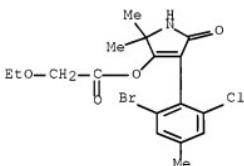
RN 185151-13-7 CAPLUS

CN Propanoic acid, 2,2-dimethyl-, 4-(2-bromo-6-chloro-4-methylphenyl)-2,5-dihydro-2,2-dimethyl-5-oxo-1H-pyrrol-3-yl ester (CA INDEX NAME)



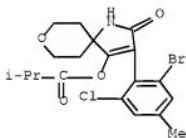
RN 185151-14-8 CAPLUS

CN Acetic acid, 2-ethoxy-, 4-(2-bromo-6-chloro-4-methylphenyl)-2,5-dihydro-2,2-dimethyl-5-oxo-1H-pyrrol-3-yl ester (CA INDEX NAME)



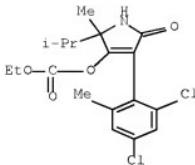
RN 185151-15-9 CAPLUS

CN Propanoic acid, 2-methyl-, 3-(2-bromo-6-chloro-4-methylphenyl)-2-oxo-8-oxa-1-azaspiro[4.5]dec-3-en-4-yl ester (CA INDEX NAME)



RN 185151-16-0 CAPLUS

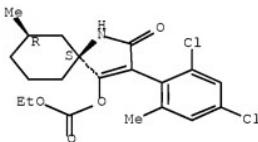
CN Carbonic acid, 4-(2,4-dichloro-6-methylphenyl)-2,5-dihydro-2-methyl-2-(1-methylethyl)-5-oxo-1H-pyrrol-3-yl ethyl ester (CA INDEX NAME)



RN 185151-17-1 CAPLUS

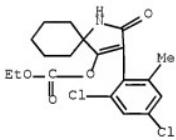
CN Carbonic acid, 3-(2,4-dichloro-6-methylphenyl)-7-methyl-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ethyl ester, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



RN 185151-18-2 CAPLUS

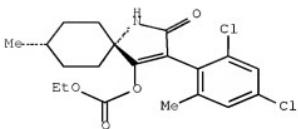
CN Carbonic acid, 3-(2,4-dichloro-6-methylphenyl)-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ethyl ester (CA INDEX NAME)



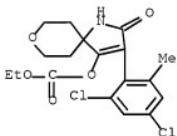
RN 185151-19-3 CAPLUS

CN Carbonic acid, 3-(2,4-dichloro-6-methylphenyl)-8-methyl-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ethyl ester, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.

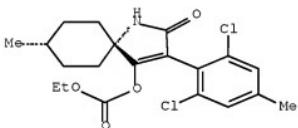


RN 185151-21-7 CAPLUS
CN Carbonic acid, 3-(2,4-dichloro-6-methylphenyl)-2-oxo-8-oxa-1-azaspiro[4.5]dec-3-en-4-yl ethyl ester (CA INDEX NAME)



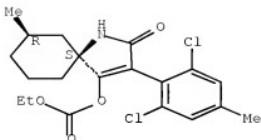
RN 185151-24-0 CAPLUS
CN Carbonic acid, 3-(2,6-dichloro-4-methylphenyl)-8-methyl-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ethyl ester, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



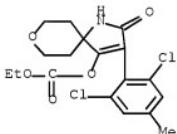
RN 185151-27-3 CAPLUS
CN Carbonic acid, 3-(2,6-dichloro-4-methylphenyl)-7-methyl-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ethyl ester, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



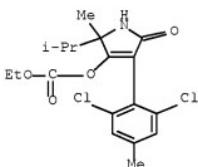
RN 185151-29-5 CAPLUS

CN Carbonic acid, 3-(2,6-dichloro-4-methylphenyl)-2-oxo-8-oxa-1-azaspiro[4.5]dec-3-en-4-yl ethyl ester (CA INDEX NAME)



RN 185151-31-9 CAPLUS

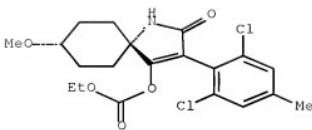
CN Carbonic acid, 4-(2,6-dichloro-4-methylphenyl)-2,5-dihydro-2-methyl-2-(1-methylethyl)-5-oxo-1H-pyrrol-3-yl ethyl ester (CA INDEX NAME)



RN 185151-33-1 CAPLUS

CN Carbonic acid, 3-(2,6-dichloro-4-methylphenyl)-8-methoxy-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ethyl ester, cis- (9CI) (CA INDEX NAME)

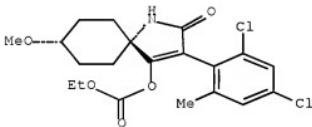
Relative stereochemistry.



RN 185151-35-3 CAPLUS

CN Carbonic acid, 3-(2,4-dichloro-6-methylphenyl)-8-methoxy-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ethyl ester, *cis*- (9CI) (CA INDEX NAME)

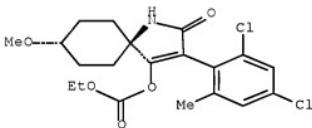
Relative stereochemistry.



RN 185151-36-4 CAPLUS

CN Carbonic acid, 3-(2,4-dichloro-6-methylphenyl)-8-methoxy-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ethyl ester, *trans*- (9CI) (CA INDEX NAME)

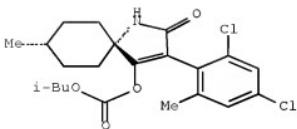
Relative stereochemistry.



RN 185151-37-5 CAPLUS

CN Carbonic acid, 3-(2,4-dichloro-6-methylphenyl)-8-methyl-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl 2-methylpropyl ester, *cis*- (9CI) (CA INDEX NAME)

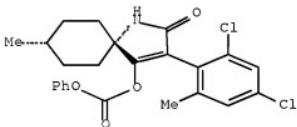
Relative stereochemistry.



RN 185151-38-6 CAPLUS

CN Carbonic acid, 3-(2,4-dichloro-6-methylphenyl)-8-methyl-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl phenyl ester, *cis*- (9CI) (CA INDEX NAME)

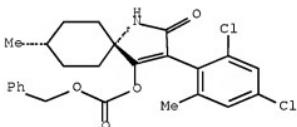
Relative stereochemistry.



RN 185151-39-7 CAPLUS

CN Carbonic acid, 3-(2,4-dichloro-6-methylphenyl)-8-methyl-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl phenylmethyl ester, *cis*- (9CI) (CA INDEX NAME)

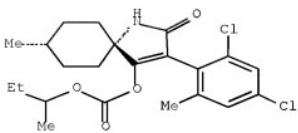
Relative stereochemistry.



RN 185151-40-0 CAPLUS

CN Carbonic acid, 3-(2,4-dichloro-6-methylphenyl)-8-methyl-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl 1-methylpropyl ester, *cis*- (9CI) (CA INDEX NAME)

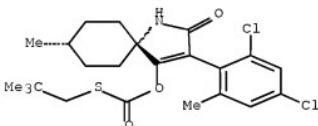
Relative stereochemistry.



RN 185151-41-1 CAPLUS

CN Carbonothioic acid, 0-[3-(2,4-dichloro-6-methylphenyl)-8-methyl-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl] S-(2,2-dimethylpropyl) ester, cis- (9CI) (CA INDEX NAME)

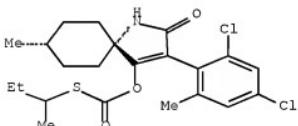
Relative stereochemistry.



RN 185151-42-2 CAPLUS

CN Carbonothioic acid, 0-[cis-3-(2,4-dichloro-6-methylphenyl)-8-methyl-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl] S-(1-methylpropyl) ester (9CI) (CA INDEX NAME)

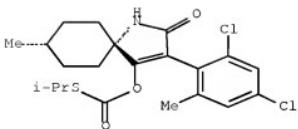
Relative stereochemistry.



RN 185151-43-3 CAPLUS

CN Carbonothioic acid, 0-[3-(2,4-dichloro-6-methylphenyl)-8-methyl-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl] S-(1-methylethyl) ester, cis- (9CI) (CA INDEX NAME)

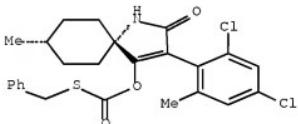
Relative stereochemistry.



RN 185151-44-4 CAPLUS

CN Carbonothioic acid, 0-[3-(2,4-dichloro-6-methylphenyl)-8-methyl-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl] S-(phenylmethyl) ester, cis- (9CI) (CA INDEX NAME)

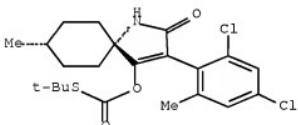
Relative stereochemistry.



RN 185151-45-5 CAPLUS

CN Carbonothioic acid, 0-[3-(2,4-dichloro-6-methylphenyl)-8-methyl-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl] S-(1,1-dimethylethyl) ester, cis- (9CI) (CA INDEX NAME)

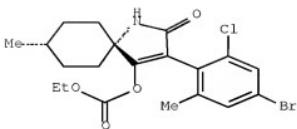
Relative stereochemistry.



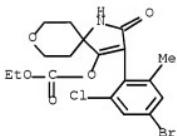
RN 185151-52-4 CAPLUS

CN Carbonic acid, 3-(4-bromo-2-chloro-6-methylphenyl)-8-methyl-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ethyl ester, cis- (9CI) (CA INDEX NAME)

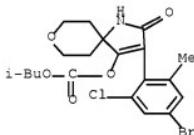
Relative stereochemistry.



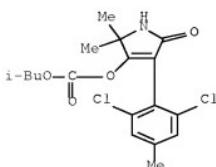
RN 185151-53-5 CAPLUS
CN Carbonic acid, 3-(4-bromo-2-chloro-6-methylphenyl)-2-oxo-8-oxa-1-azaspiro[4.5]dec-3-en-4-yl ethyl ester (CA INDEX NAME)



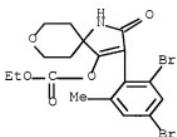
RN 185151-54-6 CAPLUS
CN Carbonic acid, 3-(4-bromo-2-chloro-6-methylphenyl)-2-oxo-8-oxa-1-azaspiro[4.5]dec-3-en-4-yl 2-methylpropyl ester (CA INDEX NAME)



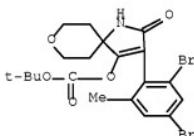
RN 185151-55-7 CAPLUS
CN Carbonic acid, 4-(2,6-dichloro-4-methylphenyl)-2,5-dihydro-2,2-dimethyl-5-oxo-1H-pyrrol-3-yl 2-methylpropyl ester (CA INDEX NAME)



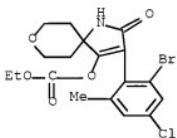
RN 185151-58-0 CAPLUS
CN Carbonic acid, 3-(2,4-dibromo-6-methylphenyl)-2-oxo-8-oxa-1-azaspiro[4.5]dec-3-en-4-yl ethyl ester (CA INDEX NAME)



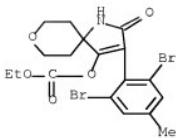
RN 185151-59-1 CAPLUS
CN Carbonic acid, 3-(2,4-dibromo-6-methylphenyl)-2-oxo-8-oxa-1-azaspiro[4.5]dec-3-en-4-yl 1,1-dimethylethyl ester (CA INDEX NAME)



RN 185151-60-4 CAPLUS
CN Carbonic acid, 3-(2-bromo-4-chloro-6-methylphenyl)-2-oxo-8-oxa-1-azaspiro[4.5]dec-3-en-4-yl ethyl ester (CA INDEX NAME)

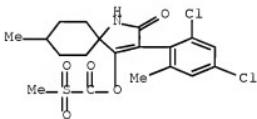


RN 185151-61-5 CAPLUS
CN Carbonic acid, 3-(2,6-dibromo-4-methylphenyl)-2-oxo-8-oxa-1-azaspiro[4.5]dec-3-en-4-yl ethyl ester (CA INDEX NAME)



RN 185151-62-6 CAPLUS

CN Formic acid, (methylsulfonyl)-, 3-(2,4-dichloro-6-methylphenyl)-8-methyl-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ester (9CI) (CA INDEX NAME)



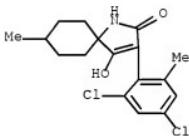
RN 185151-64-8 CAPLUS

CN 1-Azaspiro[4.5]dec-3-en-2-one, 3-(2,4-dichloro-6-methylphenyl)-4-hydroxy-8-methyl-, compd. with 2-propanamine (1:1) (CA INDEX NAME)

CM 1

CRN 185151-63-7

CMF C17 H19 Cl2 N O2



CM 2

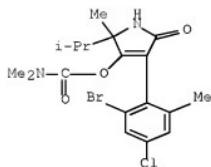
CRN 75-31-0

CMF C3 H9 N



RN 185151-65-9 CAPLUS

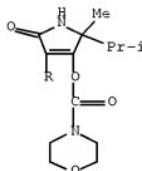
CN Carbamic acid, dimethyl-, 4-(2-bromo-4-chloro-6-methylphenyl)-2,5-dihydro-2-methyl-2-(1-methylethyl)-5-oxo-1H-pyrrol-3-yl ester (9CI) (CA INDEX NAME)



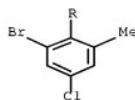
RN 185151-66-0 CAPLUS

CN 4-Morpholinecarboxylic acid, 4-(2-bromo-4-chloro-6-methylphenyl)-2,5-dihydro-2-methyl-2-(1-methylethyl)-5-oxo-1H-pyrrol-3-yl ester (CA INDEX NAME)

PAGE 1-A



PAGE 2-A



L3 ANSWER 47 OF 53 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 19961577745 CAPLUS Full-text

DOCUMENT NUMBER: 125:221568

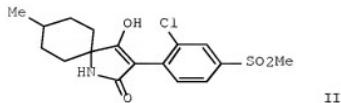
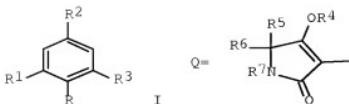
ORIGINAL REFERENCE NO.: 125:41409a, 41412a

TITLE: Preparation of 3-phenyl-2,4-dioxopyrrolidine tautomers

and analogs as herbicides and pesticides
INVENTOR(S):
 Fischer, Reiner; Bretschneider, Thomas; Hagemann,
 Hermann; Lieb, Folker; Lui, Norbert; Ruther, Michael;
 Widdig, Arno; Erdelen, Christoph; Wachendorff-Neumann,
 Ulrike; et al.
PATENT ASSIGNEE(S):
 Bayer A.-G., Germany
SOURCE:
 Ger. Offen., 94 pp.
CODEN: GWXXBX
DOCUMENT TYPE:
 Patent
LANGUAGE:
 German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 19543864	A1	19960814	DE 1995-19543864	19951124
WO 9625395	A1	19960822	WO 1996-EP382	19960131
W: AU, BB, BG, BR, BY, CA, CN, CZ, FI, HU, JP, KR, KZ, LK, MX, NO, NZ, PL, RO, RU, SK, UA, US				
RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
AU 9647158	A	19960904	AU 1996-47158	19960131
BR 9606956	A	19971028	BR 1996-6956	19960131
EP 809629	A1	19971203	EP 1996-902951	19960131
EP 809629	B1	20040630		
R: BE, CH, DE, ES, FR, GB, IT, LI, NL				
CN 1173866	A	19980218	CN 1996-191907	19960131
CN 1154634	C	20040623		
HU 9800031	A2	19980528	HU 1998-31	19960131
HU 9800031	A3	19980629		
JP 11500114	T	19990106	JP 1996-524608	19960131
JP 4036470	B2	20080123		
ES 2224156	T3	20050301	ES 1996-902951	19960131
ZA 9601107	A	19960828	ZA 1996-1107	19960212
US 6358887	B1	20020319	US 1997-875872	19970805
US 20030045432	A1	20030306	US 2001-14713	20011211
US 6746990	B2	20040608		
PRIORITY APPLN. INFO.:				
		DE 1995-19504621	A1 19950213	
		DE 1995-19543864	A 19951124	
		WO 1996-EP382	W 19960131	
		US 1997-875872	A3 19970805	

OTHER SOURCE(S): MARPAT 125:221568
 GI

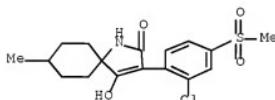


AB Title compds. [I; R = oxopyrrolinyl group Q; R1 = halo, alkyl, alkoxy, Ph, etc.; R2,R3 = H, halo, alkyl, alkoxy, etc.; R4 = H, alkanoyl, alkoxy carbonyl, etc.; R5 = H, alkyl, (hetero)aryl, etc.; R6 = H, (alkoxy)alkyl; R5R6 = atoms to form a ring; R7 = H, alkyl, (hetero)aryl, etc.; R6R7 = atoms to form a ring] were prepared Thus, 2,4-Cl(MeO₂S)C₆H₃CH₂CO₂H which was converted in 3 steps to 2,4-Cl(MeO₂S)C₆H₃CH₂CO₂H which was amidated by Me 1-amino-4-methylcyclohexanecarboxylate and the product cyclized to give title compound II. The latter gave complete control of *Nephrotettix cincticeps* on rice seedlings at 0.1%.

IT 181299-78-5P 181299-95-6P
RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses) (preparation of 3-phenyl-2,4-dioxopyrrolidine tautomers and analogs as herbicides and pesticides)

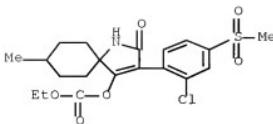
RN 181299-78-5 CAPLUS

CN 1-Azaspiro[4.5]dec-3-en-2-one, 3-[2-chloro-4-(methylsulfonyl)phenyl]-4-hydroxy-8-methyl- (CA INDEX NAME)



RN 181299-95-6 CAPLUS

CN Carbonic acid, 3-[2-chloro-4-(methylsulfonyl)phenyl]-8-methyl-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ethyl ester (CA INDEX NAME)



L3 ANSWER 48 OF 53 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1995:975372 CAPLUS [Full-text](#)

DOCUMENT NUMBER: 124:8607

ORIGINAL REFERENCE NO.: 124:1817a,1820a

TITLE: Preparation of 3-arylpyrrolidine-2,4-diones as pesticides.

INVENTOR(S): Fischer, Reiner; Bretschneider, Thomas; Krueger, Bernd-Wieland; Ruther, Michael; Erdelen, Christoph; Wachendorff-Neumann, Ulrike

PATENT ASSIGNEE(S): Bayer A.-G., Germany

SOURCE: PCT Int. Appl., 213 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

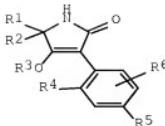
FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

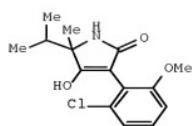
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9520572	A1	19950803	WO 1995-EP150	19950116
W: AU, BB, BG, BR, BY, CA, CN, CZ, FI, HU, JP, KR, KZ, LK, MX, NO, NZ, PL, RO, RU, SK, UA, US				
RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
DE 4425617	A1	19950803	DE 1994-4425617	19940720
AU 9514166	A	19950815	AU 1995-14166	19950116
AU 695700	B2	19980820		
EP 741700	A1	19961113	EP 1995-905627	19950116
R: BE, CH, DE, ES, FR, GB, IT, LI, NL				
JP 09508133	T	19970819	JP 1995-519860	19950116
BR 9506577	A	19970923	BR 1995-6577	19950116
US 6472419	B1	20021029	US 1997-967254	19971105
PRIORITY APPLN. INFO.:				
			DE 1994-4402531	A 19940128
			DE 1994-4425617	A 19940720
			WO 1995-EP150	W 19950116
			US 1996-676363	B1 19960722

OTHER SOURCE(S): MARPAT 124:8607

GI



I



II

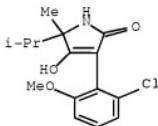
AB Title compds. [I; R1 = H, (halo-substituted) alkyl, alkenyl, alkoxyalkyl, polyalkoxyalkyl, alkylthioalkyl, (heteroatom-interrupted) cycloalkyl, (substituted) aryl, aralkyl, heteroaryl; R2 = H, alkyl, alkoxyalkyl; R1R2 = atoms to form an (unsatd.) (heteroatom-interrupted) (substituted) ring; R3 = H, acyl; R4 = halo, alkoxy; R5, R6 = H, halo, alkoxy], were prepared Thus, Me N-(2-chloro-6-methoxyphenylacetyl)-2-amino-2,3-dimethylbutyrate in PhMe was added to KOCMe₃ in refluxing THF and the mixture was refluxed 1.5 h to give 93% title compound (II). Selected I at 0.00016% gave ≥80% kill of *Tetranychus urticae* on beans.

IT 170737-77-6P 170737-78-7P 170737-79-8P
 170737-99-2P 170738-00-8P 170738-03-1P
 170738-05-3P 170738-06-4P 170738-09-7P
 170738-10-6P 170738-14-4P 170738-15-5P
 170738-17-7P 170738-19-8P 170738-21-3P
 171274-28-5P 171274-29-6P 171274-30-9P
 171274-31-0P 171274-32-1P 171274-33-2P
 171274-34-3P

RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses) (preparation of 3-arylpyrrolidine-2,4-diones as pesticides)

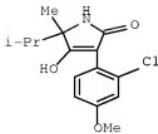
RN 170737-77-6 CAPLUS

CN 2H-Pyrrol-2-one, 3-(2-chloro-6-methoxyphenyl)-1,5-dihydro-4-hydroxy-5-methyl-5-(1-methylethyl)- (CA INDEX NAME)

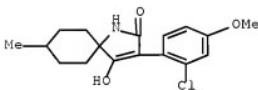


RN 170737-78-7 CAPLUS

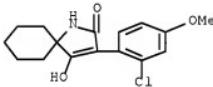
CN 2H-Pyrrol-2-one, 3-(2-chloro-4-methoxyphenyl)-1,5-dihydro-4-hydroxy-5-methyl-5-(1-methylethyl)- (CA INDEX NAME)



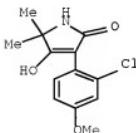
RN 170737-79-8 CAPLUS
 CN 1-Azaspiro[4.5]dec-3-en-2-one, 3-(2-chloro-4-methoxyphenyl)-4-hydroxy-8-methyl- (CA INDEX NAME)



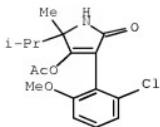
RN 170737-99-2 CAPLUS
 CN 1-Azaspiro[4.5]dec-3-en-2-one, 3-(2-chloro-4-methoxyphenyl)-4-hydroxy- (CA INDEX NAME)



RN 170738-00-8 CAPLUS
 CN 2H-Pyrrol-2-one, 3-(2-chloro-4-methoxyphenyl)-1,5-dihydro-4-hydroxy-5,5-dimethyl- (CA INDEX NAME)

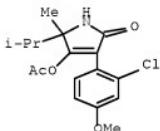


RN 170738-03-1 CAPLUS
 CN 2H-Pyrrol-2-one, 4-(acetoxy)-3-(2-chloro-6-methoxyphenyl)-1,5-dihydro-5-methyl-1-(1-methylethyl)- (CA INDEX NAME)



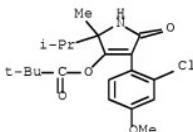
RN 170738-05-3 CAPLUS

CN 2H-Pyrrol-2-one, 4-(acetyloxy)-3-(2-chloro-4-methoxyphenyl)-1,5-dihydro-5-methyl-2-(1-methylethyl)- (CA INDEX NAME)



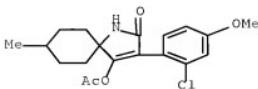
RN 170738-06-4 CAPLUS

CN Propanoic acid, 2,2-dimethyl-, 4-(2-chloro-4-methoxyphenyl)-2,5-dihydro-2-methyl-2-(1-methylethyl)-5-oxo-1H-pyrrol-3-yl ester (CA INDEX NAME)

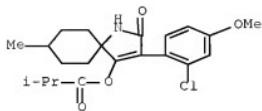


RN 170738-09-7 CAPLUS

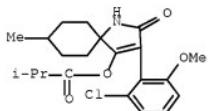
CN 1-Azaspiro[4.5]dec-3-en-2-one, 4-(acetyloxy)-3-(2-chloro-4-methoxyphenyl)-8-methyl- (CA INDEX NAME)



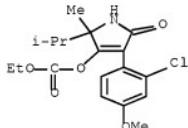
RN 170738-10-0 CAPLUS
CN Propanoic acid, 2-methyl-, 3-(2-chloro-4-methoxyphenyl)-8-methyl-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ester (CA INDEX NAME)



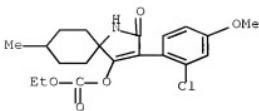
RN 170738-14-4 CAPLUS
CN Propanoic acid, 2-methyl-, 3-(2-chloro-6-methoxyphenyl)-8-methyl-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ester (CA INDEX NAME)



RN 170738-15-5 CAPLUS
CN Carbonic acid, 4-(2-chloro-4-methoxyphenyl)-2,5-dihydro-2-methyl-2-(1-methylethyl)-5-oxo-1H-pyrrol-3-yl ethyl ester (CA INDEX NAME)

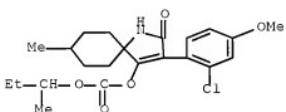


RN 170738-17-7 CAPLUS
CN Carbonic acid, 3-(2-chloro-4-methoxyphenyl)-8-methyl-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ethyl ester (CA INDEX NAME)



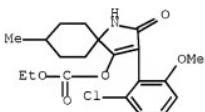
RN 170738-18-8 CAPLUS

CN Carbonic acid, 3-(2-chloro-4-methoxyphenyl)-8-methyl-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl 1-methylpropyl ester (CA INDEX NAME)



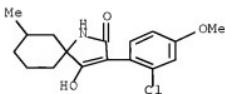
RN 170738-21-3 CAPLUS

CN Carbonic acid, 3-(2-chloro-6-methoxyphenyl)-8-methyl-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ethyl ester (CA INDEX NAME)



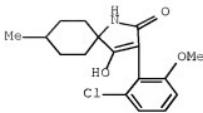
RN 171274-28-5 CAPLUS

CN 1-Azaspiro[4.5]dec-3-en-2-one, 3-(2-chloro-4-methoxyphenyl)-4-hydroxy-7-methyl- (CA INDEX NAME)



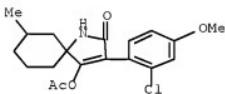
RN 171274-29-6 CAPLUS

CN 1-Azaspiro[4.5]dec-3-en-2-one, 3-(2-chloro-6-methoxyphenyl)-4-hydroxy-8-methyl- (CA INDEX NAME)



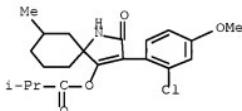
RN 171274-30-9 CAPLUS

CN 1-Azaspiro[4.5]dec-3-en-2-one, 4-(acetyloxy)-3-(2-chloro-4-methoxyphenyl)-7-methyl- (CA INDEX NAME)



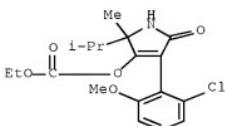
RN 171274-31-0 CAPLUS

CN Propanoic acid, 2-methyl-, 3-(2-chloro-4-methoxyphenyl)-7-methyl-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ester (CA INDEX NAME)



RN 171274-32-1 CAPLUS

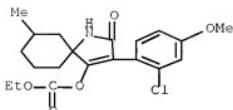
CN Carbonic acid, 4-(2-chloro-6-methoxyphenyl)-2,5-dihydro-2-methyl-2-(1-methylethyl)-5-oxo-1H-pyrrol-3-yl ethyl ester (CA INDEX NAME)



RN 171274-33-2 CAPLUS

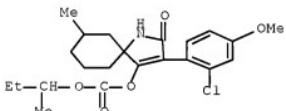
CN Carbonic acid, 3-(2-chloro-4-methoxyphenyl)-7-methyl-2-oxo-1-

azaspiro[4.5]dec-3-en-4-yl ethyl ester (CA INDEX NAME)



RN 171274-34-3 CAPLUS

CN Carbonic acid, 3-(2-chloro-4-methoxyphenyl)-7-methyl-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl 1-methylpropyl ester (CA INDEX NAME)



L3 ANSWER 49 OF 53 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1995:954606 CAPLUS [Full-text](#)

DOCUMENT NUMBER: 123:339723

ORIGINAL REFERENCE NO.: 123:60967a,60970a

TITLE: Preparation of 1H-3-arylpyrrolidine-2,4-dione
pesticides and herbicides

INVENTOR(S): Fischer, Reiner; Bretschneider, Thomas; Krueger,
Bernd-Wieland; Ruther, Michael; Erdelen, Christoph;
Wachendorff-Neumann, Ulrike; Santel, Hans-Joachim;
Dollinger, Markus

PATENT ASSIGNEE(S): Bayer A.-G., Germany

SOURCE: Ger. Offen., 126 pp.
CODEN: GWXXBX

DOCUMENT TYPE: Patent

LANGUAGE: German

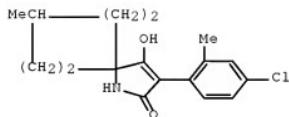
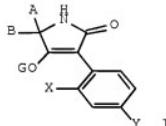
FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 4431730	A1	19950810	DE 1994-4431730	19940906
US 5622917	A	19970422	US 1995-383801	19950103
EP 668267	A1	19950823	EP 1995-101136	19950127
EP 668267	B1	19980408		
R: BE, CH, DE, ES, FR, GB, IT, LI, NL				
ES 2114238	T3	19980516	ES 1995-101136	19950127
CA 2141923	A1	19950810	CA 1995-2141923	19950206
AU 9511570	A	19950817	AU 1995-11570	19950206
JP 07252222	A	19951003	JP 1995-42613	19950208
JP 3626235	B2	20050302		

ZA 9501006	A	19951011	ZA 1995-1006	19950208
BR 9500475	A	19960227	BR 1995-475	19950208
CN 1110680	A	19951025	CN 1995-101670	19950209
CN 1080719	C	20020313		
US 5847211	A	19981208	US 1996-759352	19961203
PRIORITY APPLN. INFO.:			DE 1994-4404001	AI 19940209
			DE 1994-4431730	A 19940906
			US 1995-383801	A3 19950203

OTHER SOURCE(S): MARPAT 123:339723
GI

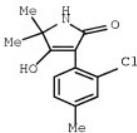


AB The title compds. [I; A = H, (un)substituted alkyl, alkenyl, (un)substituted cycloalkyl, (un)substituted aryl or heteroaryl; B = H, alkyl, alkoxyalkyl; G = H, (un)substituted carbonyl derivs., (un)substituted sulfonyl derivs., etc.; X, Y = halogen, alkyl], useful as pesticides and herbicides, are prepared. Thus, pyrrolidinediones β -isomer (II; m.p. >230°) was prepared and demonstrated 95% control of Tetranychus urticae-infected Phaseolus vulgaris at 0.02% II over 7 days.

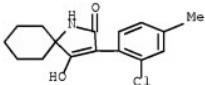
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 170920-50-0P 170920-51-1P 170920-55-5P
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 170921-00-3P 170921-01-4P 170921-02-5P
 170921-03-6P 170921-04-7P 170921-05-8P
 170921-06-9P

RL: AGR (Agricultural use); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (preparation of 1H-3-arylpyrrolidine-2,4-dione pesticides and herbicides)

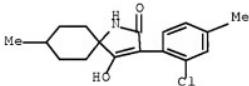
RN 170920-45-3 CAPLUS
 CN 2H-Pyrrol-2-one, 3-(2-chloro-4-methylphenyl)-1,5-dihydro-4-hydroxy-5,5-dimethyl- (CA INDEX NAME)



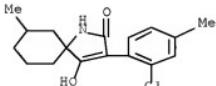
RN 170920-48-6 CAPLUS
CN 1-Azaspiro[4.5]dec-3-en-2-one, 3-(2-chloro-4-methylphenyl)-4-hydroxy- (CA INDEX NAME)



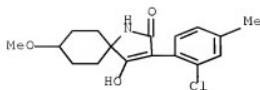
RN 170920-49-7 CAPLUS
CN 1-Azaspiro[4.5]dec-3-en-2-one, 3-(2-chloro-4-methylphenyl)-4-hydroxy-8-methyl- (CA INDEX NAME)



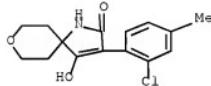
RN 170920-50-0 CAPLUS
CN 1-Azaspiro[4.5]dec-3-en-2-one, 3-(2-chloro-4-methylphenyl)-4-hydroxy-7-methyl- (CA INDEX NAME)



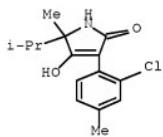
RN 170920-51-1 CAPLUS
CN 1-Azaspiro[4.5]dec-3-en-2-one, 3-(2-chloro-4-methylphenyl)-4-hydroxy-8-methoxy- (CA INDEX NAME)



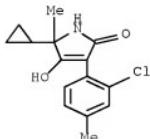
RN 170920-55-5 CAPLUS
 CN 8-Oxa-1-azaspiro[4.5]dec-3-en-2-one,
 3-(2-chloro-4-methylphenyl)-4-hydroxy- (CA INDEX NAME)



RN 170920-56-6 CAPLUS
 CN 2H-Pyrrol-2-one, 3-(2-chloro-4-methylphenyl)-1,5-dihydro-4-hydroxy-5-methyl-5-(1-methylethyl)- (CA INDEX NAME)

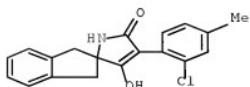


RN 170920-57-7 CAPLUS
 CN 2H-Pyrrol-2-one, 3-(2-chloro-4-methylphenyl)-5-cyclopropyl-1,5-dihydro-4-hydroxy-5-methyl- (CA INDEX NAME)



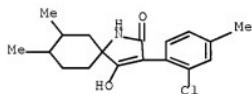
RN 170920-58-8 CAPLUS
 CN Spiro[2H-indene-2,2'-(2H)pyrrol]-5'(1'H)-one,

4'-(2-chloro-4-methylphenyl)-1,3-dihydro-3'-hydroxy- (CA INDEX NAME)



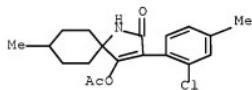
RN 170920-59-9 CAPLUS

CN 1-Azaspiro[4.5]dec-3-en-2-one, 3-(2-chloro-4-methylphenyl)-4-hydroxy-7,8-dimethyl- (CA INDEX NAME)



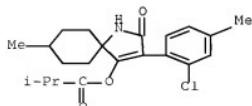
RN 170920-65-7 CAPLUS

CN 1-Azaspiro[4.5]dec-3-en-2-one, 4-(acetyloxy)-3-(2-chloro-4-methylphenyl)-8-methyl- (CA INDEX NAME)



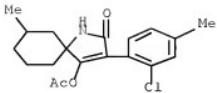
RN 170920-66-8 CAPLUS

CN Propanoic acid, 2-methyl-, 3-(2-chloro-4-methylphenyl)-8-methyl-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ester (CA INDEX NAME)



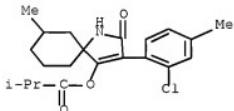
RN 170920-67-9 CAPLUS

CN 1-Azaspiro[4.5]dec-3-en-2-one, 4-(acetyloxy)-3-(2-chloro-4-methylphenyl)-7-methyl- (CA INDEX NAME)



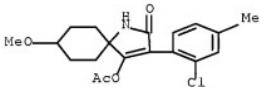
RN 170920-68-0 CAPLUS

CN Propanoic acid, 2-methyl-, 3-(2-chloro-4-methylphenyl)-7-methyl-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ester (CA INDEX NAME)



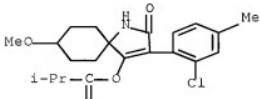
RN 170920-69-1 CAPLUS

CN 1-Azaspiro[4.5]dec-3-en-2-one, 4-(acetyloxy)-3-(2-chloro-4-methylphenyl)-8-methoxy- (CA INDEX NAME)



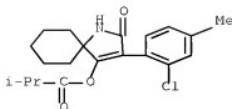
RN 170920-70-4 CAPLUS

CN Propanoic acid, 2-methyl-, 3-(2-chloro-4-methylphenyl)-8-methoxy-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ester (CA INDEX NAME)



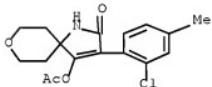
RN 170920-75-9 CAPLUS

CN Propanoic acid, 2-methyl-, 3-(2-chloro-4-methylphenyl)-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ester (CA INDEX NAME)



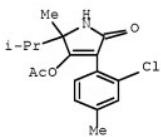
RN 170920-76-0 CAPLUS

CN 8-Oxa-1-azaspiro[4.5]dec-3-en-2-one,
4-(acetyloxy)-3-(2-chloro-4-methylphenyl)- (CA INDEX NAME)



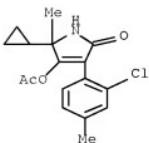
RN 170920-77-1 CAPLUS

CN 2H-Pyrrol-2-one, 4-(acetyloxy)-3-(2-chloro-4-methylphenyl)-1,5-dihydro-5-methyl-5-(1-methylethyl)- (CA INDEX NAME)

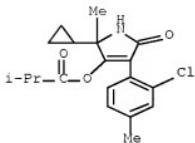


RN 170920-78-2 CAPLUS

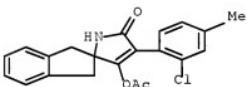
CN 2H-Pyrrol-2-one, 4-(acetyloxy)-3-(2-chloro-4-methylphenyl)-5-cyclopropyl-1,5-dihydro-5-methyl- (CA INDEX NAME)



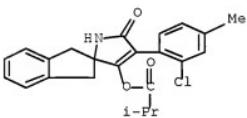
RN 170920-79-3 CAPLUS
CN Propanoic acid, 2-methyl-, 4-(2-chloro-4-methylphenyl)-2-cyclopropyl-2,5-dihydro-2-methyl-5-oxo-1H-pyrrol-3-yl ester (CA INDEX NAME)



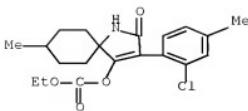
RN 170920-80-6 CAPLUS
CN Spiro[2H-indene-2,2'-[2H]pyrrol]-5'(1'H)-one,
3'-(acetoxy)-4'-(2-chloro-4-methylphenyl)-1,3-dihydro- (CA INDEX NAME)



RN 170920-81-7 CAPLUS
CN Propanoic acid, 2-methyl-, 4'-(2-chloro-4-methylphenyl)-1,3-dihydro-5'-oxSpiro[2H-indene-2,2'-[2H]pyrrol]-3'-yl ester (CA INDEX NAME)

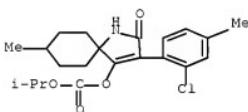


RN 170920-91-9 CAPLUS
CN Carbonic acid, 3-(2-chloro-4-methylphenyl)-8-methyl-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ethyl ester (CA INDEX NAME)



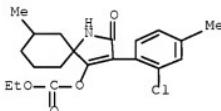
RN 170920-92-0 CAPLUS

CN Carbonic acid, 3-(2-chloro-4-methylphenyl)-8-methyl-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl 1-methylethyl ester (CA INDEX NAME)



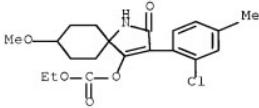
RN 170920-93-1 CAPLUS

CN Carbonic acid, 3-(2-chloro-4-methylphenyl)-7-methyl-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ethyl ester (CA INDEX NAME)



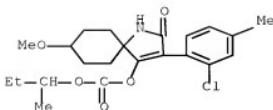
RN 170920-94-2 CAPLUS

CN Carbonic acid, 3-(2-chloro-4-methylphenyl)-8-methoxy-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ethyl ester (CA INDEX NAME)



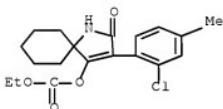
RN 170920-95-3 CAPLUS

CN Carbonic acid, 3-(2-chloro-4-methylphenyl)-8-methoxy-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl 1-methylpropyl ester (CA INDEX NAME)



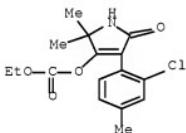
RN 170920-98-6 CAPLUS

CN Carbonic acid, 3-(2-chloro-4-methylphenyl)-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ethyl ester (CA INDEX NAME)



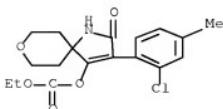
RN 170920-99-7 CAPLUS

CN Carbonic acid, 4-(2-chloro-4-methylphenyl)-2,5-dihydro-2,2-dimethyl-5-oxo-1H-pyrrol-3-yl ethyl ester (CA INDEX NAME)

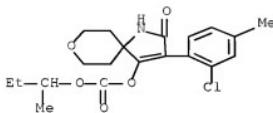


RN 170921-00-3 CAPLUS

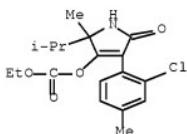
CN Carbonic acid, 3-(2-chloro-4-methylphenyl)-2-oxo-8-oxa-1-azaspiro[4.5]dec-3-en-4-yl ethyl ester (CA INDEX NAME)



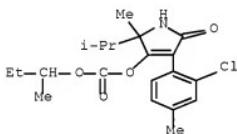
RN 170921-01-4 CAPLUS
CN Carbonic acid, 3-(2-chloro-4-methylphenyl)-2-oxo-8-oxa-1-azaspiro[4.5]dec-3-en-4-yl 1-methylpropyl ester (CA INDEX NAME)



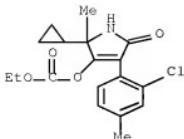
RN 170921-02-5 CAPLUS
CN Carbonic acid, 4-(2-chloro-4-methylphenyl)-2,5-dihydro-2-methyl-2-(1-methylethyl)-5-oxo-1H-pyrrol-3-yl ethyl ester (CA INDEX NAME)



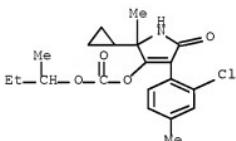
RN 170921-03-6 CAPLUS
CN Carbonic acid, 4-(2-chloro-4-methylphenyl)-2,5-dihydro-2-methyl-2-(1-methylethyl)-5-oxo-1H-pyrrol-3-yl 1-methylpropyl ester (CA INDEX NAME)



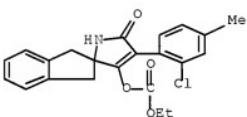
RN 170921-04-7 CAPLUS
CN Carbonic acid, 4-(2-chloro-4-methylphenyl)-2-cyclopropyl-2,5-dihydro-2-methyl-5-oxo-1H-pyrrol-3-yl ethyl ester (CA INDEX NAME)



RN 170921-05-8 CAPLUS
 CN Carbonic acid, 4-(2-chloro-4-methylphenyl)-2-cyclopropyl-2,5-dihydro-2-methyl-5-oxo-1H-pyrrol-3-yl 1-methylpropyl ester (CA INDEX NAME)



RN 170921-06-9 CAPLUS
 CN Carbonic acid, 4'-(2-chloro-4-methylphenyl)-1,1',3,5'-tetrahydro-5'-oxospiro[2H-indene-2,2'-(2H)pyrrol]-3'-yl ethyl ester (9CI) (CA INDEX NAME)



L3 ANSWER 50 OF 53 CAPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 1995:943486 CAPLUS [Full-text](#)
 DOCUMENT NUMBER: 123:339722
 ORIGINAL REFERENCE NO.: 123:60967a,60970a
 TITLE: Preparation of 1H-3-arylpyrrolidine-2,4-dione
 pesticides
 INVENTOR(S): Fisc her, Reiner; Bretschneider, Thomas; Krueger,
 Bernd-Wieland; Ruther, Michael; Erdelen, Christoph;
 Wachendorff-Neumann, Ulrike
 PATENT ASSIGNEE(S): Bayer A.-G., Germany
 SOURCE: Ger. Offen., 157 pp.
 CODEN: GWXXBX

DOCUMENT TYPE:

Patent

LANGUAGE:

German

FAMILY ACC. NUM. COUNT: 2

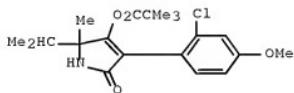
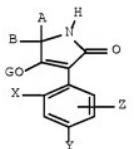
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 4425617	A1	19950803	DE 1994-4425617	19940720
CA 2182094	A1	19950803	CA 1995-2182094	19950116
WO 9520572	A1	19950803	WO 1995-EP150	19950116
W: AU, BB, BG, BR, BY, CA, CN, CZ, FI, HU, JP, KR, KZ, LK, MX, NO, NZ, PL, RO, RU, SK, UA, US RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BE, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
AU 9514166	A	19950815	AU 1995-14166	19950116
AU 695700	B2	19980820		
EP 741700	A1	19961113	EP 1995-905627	19950116
R: BE, CH, DE, ES, FR, GB, IT, LI, NL				
CN 1142225	A	19970205	CN 1995-191816	19950116
CN 1080258	C	20020306		
JP 09508133	T	19970819	JP 1995-519860	19950116
BR 9506577	A	19970923	BR 1995-6577	19950116
ZA 9500661	A	19950928	ZA 1995-661	19950127
US 6472419	B1	20021029	US 1997-967254	19971105
US 20040019061	A1	20040129	US 2002-189236	20020703
US 6939888	B2	20050906		
PRIORITY APPLN. INFO.:			DE 1994-4402531	A1 19940128
			DE 1994-4425617	A 19940720
			WO 1995-EP150	W 19950116
			US 1996-676363	B1 19960722
			US 1997-967254	A3 19971105

OTHER SOURCE(S):

MARPAT 123:339722

GI



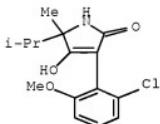
AB The title compds. [I; A = H, (un)substituted alkyl, alkenyl, (un)substituted cycloalkyl, (un)substituted aryl or heteroaryl; B = H, alkyl, alkoxyalkyl; G = H, (un)substituted carbonyl derivative, (un)substituted sulfonyl derivative, etc.; X = halogen, alkoxy; Y, Z = H, halogen, alkoxy, useful as insecticides and acaricides, are prepared. Thus, pyrrolidine II (m.p. 113°) was prepared and demonstrated >80% control of *Tetranychus urticae*-infested *Phaseolus vulgaris* after contact with 0.00016% II for 7 days.

IT 170737-77-6P 170737-78-7P 170737-79-8P
 170737-98-1P 170737-99-2P 170738-00-8P
 170738-02-0P 170738-03-1P 170738-05-3P
 170738-06-4P 170738-09-7P 170738-10-0P

170738-11-1P 170738-12-2P 170738-14-4P
170738-15-5P 170738-17-7P 170738-18-8P
170738-19-9P 170738-20-2P 170738-21-3P
RL: AGR (Agricultural use); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of 1H-3-arylpyrrolidine-2,4-dione pesticides)

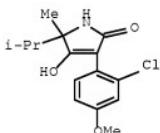
RN 170737-77-6 CAPLUS

CN 2H-Pyrrol-2-one, 3-(2-chloro-6-methoxyphenyl)-1,5-dihydro-4-hydroxy-5-methyl-5-(1-methylethyl)- (CA INDEX NAME)



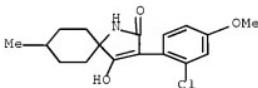
RN 170737-78-7 CAPLUS

CN 2H-Pyrrol-2-one, 3-(2-chloro-4-methoxyphenyl)-1,5-dihydro-4-hydroxy-5-methyl-5-(1-methylethyl)- (CA INDEX NAME)



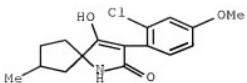
RN 170737-79-8 CAPLUS

CN 1-Azaspido[4.5]dec-3-en-2-one, 3-(2-chloro-4-methoxyphenyl)-4-hydroxy-8-methyl- (CA INDEX NAME)

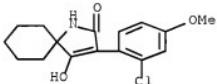


RN 170737-98-1 CAPLUS

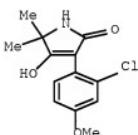
CN 1-Azaspido[4.4]non-3-en-2-one, 3-(2-chloro-4-methoxyphenyl)-4-hydroxy-7-methyl- (CA INDEX NAME)



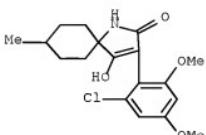
RN 170737-99-2 CAPLUS
CN 1-Azaspiro[4.5]dec-3-en-2-one, 3-(2-chloro-4-methoxyphenyl)-4-hydroxy-
(CA INDEX NAME)



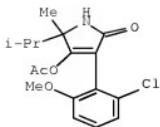
RN 170738-00-8 CAPLUS
CN 2H-Pyrrol-2-one, 3-(2-chloro-4-methoxyphenyl)-1,5-dihydro-4-hydroxy-5,5-dimethyl-
(CA INDEX NAME)



RN 170738-02-0 CAPLUS
CN 1-Azaspiro[4.5]dec-3-en-2-one, 3-(2-chloro-4,6-dimethoxyphenyl)-4-hydroxy-
8-methyl- (CA INDEX NAME)

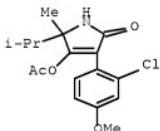


RN 170738-03-1 CAPLUS
CN 2H-Pyrrol-2-one, 4-(acetoxy)-3-(2-chloro-6-methoxyphenyl)-1,5-dihydro-5-methyl-1-(1-methylethyl)-
(CA INDEX NAME)



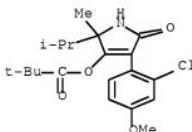
RN 170738-05-3 CAPLUS

CN 2H-Pyrrol-2-one, 4-(acetyloxy)-3-(2-chloro-4-methoxyphenyl)-1,5-dihydro-5-methyl-2-(1-methylethyl)- (CA INDEX NAME)



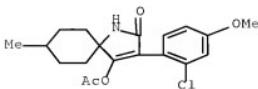
RN 170738-06-4 CAPLUS

CN Propanoic acid, 2,2-dimethyl-, 4-(2-chloro-4-methoxyphenyl)-2,5-dihydro-2-methyl-2-(1-methylethyl)-5-oxo-1H-pyrrol-3-yl ester (CA INDEX NAME)



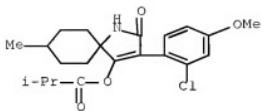
RN 170738-09-7 CAPLUS

CN 1-Azaspido[4.5]dec-3-en-2-one, 4-(acetyloxy)-3-(2-chloro-4-methoxyphenyl)-8-methyl- (CA INDEX NAME)



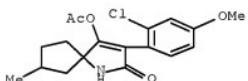
RN 170738-10-0 CAPLUS

CN Propanoic acid, 2-methyl-, 3-(2-chloro-4-methoxyphenyl)-8-methyl-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ester (CA INDEX NAME)



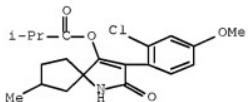
RN 170738-11-1 CAPLUS

CN 1-Azaspiro[4.4]non-3-en-2-one, 4-(acetoxy)-3-(2-chloro-4-methoxyphenyl)-7-methyl- (CA INDEX NAME)



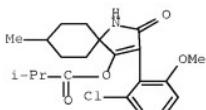
RN 170738-12-2 CAPLUS

CN Propanoic acid, 2-methyl-, 3-(2-chloro-4-methoxyphenyl)-7-methyl-2-oxo-1-azaspiro[4.4]non-3-en-4-yl ester (CA INDEX NAME)

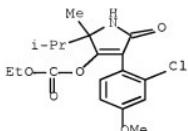


RN 170738-14-4 CAPLUS

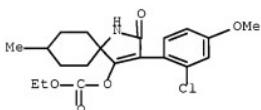
CN Propanoic acid, 2-methyl-, 3-(2-chloro-6-methoxyphenyl)-8-methyl-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ester (CA INDEX NAME)



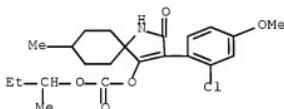
RN 170738-15-5 CAPLUS
CN Carbonic acid, 4-(2-chloro-4-methoxyphenyl)-2,5-dihydro-2-methyl-2-(1-methylethyl)-5-oxo-1H-pyrrol-3-yl ethyl ester (CA INDEX NAME)



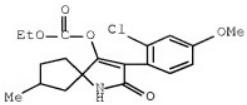
RN 170738-17-7 CAPLUS
CN Carbonic acid, 3-(2-chloro-4-methoxyphenyl)-8-methyl-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ethyl ester (CA INDEX NAME)



RN 170738-18-8 CAPLUS
CN Carbonic acid, 3-(2-chloro-4-methoxyphenyl)-8-methyl-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl 1-methylpropyl ester (CA INDEX NAME)

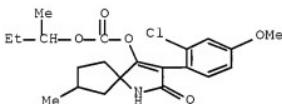


RN 170738-19-9 CAPLUS
CN Carbonic acid, 3-(2-chloro-4-methoxyphenyl)-7-methyl-2-oxo-1-azaspiro[4.4]non-3-en-4-yl ethyl ester (CA INDEX NAME)



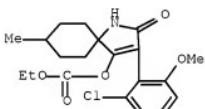
RN 170738-20-2 CAPLUS

CN Carbonic acid, 3-(2-chloro-4-methoxyphenyl)-7-methyl-2-oxo-1-azaspiro[4.4]non-3-en-4-yl 1-methylpropyl ester (CA INDEX NAME)



RN 170738-21-3 CAPLUS

CN Carbonic acid, 3-(2-chloro-6-methoxyphenyl)-8-methyl-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ethyl ester (CA INDEX NAME)



L3 ANSWER 51 OF 53 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1995:508005 CAPLUS [Full-text](#)

DOCUMENT NUMBER: 122:265355

ORIGINAL REFERENCE NO.: 122:48449a,48452a

TITLE: Preparation of spirocyclic

1H-3-arylpyrrolidin-2,4-diones as pesticides.

INVENTOR(S): Fischer, Reiner; Bretschneider, Thomas; Krueger, Bernd-Wieland; Santel, Hans Joachim; Dollinger, Markus; Erdelen, Christoph; Wachendorff-Neumann, Ulrike

PATENT ASSIGNEE(S): Bayer A.-G., Germany

SOURCE: Ger. Offen., 65 pp.

CODEN: GWXXBX

DOCUMENT TYPE: Patent

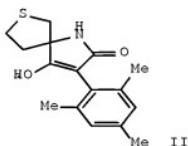
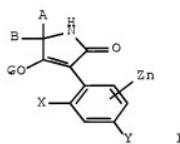
LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 4415334	A1	19950112	DE 1994-4415334	19940502
WO 9501358	A1	19950112	WO 1994-EP1997	19940620
W: AU, BB, BG, BR, BY, CA, CN, CZ, FI, HU, JP, KR, KZ, LK, NO, NZ, PL, RO, RU, SK, UA, US				
RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BE, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
AU 9471864	A	19950124	AU 1994-71864	19940620
EP 706527	A1	19960417	EP 1994-920958	19940620
EP 706527	B1	20011114		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, NL, PT				
CN 1126475	A	19960710	CN 1994-192660	19940620
CN 1099420	C	20030122		
BR 9407046	A	19960813	BR 1994-7046	19940620
JP 08512034	T	19961217	JP 1995-503238	19940620
JP 3542805	B2	20040714		
HU 74311	A2	19961230	HU 1995-3930	19940620
RU 2144034	C1	20000110	RU 1996-105903	19940620
AT 208779	T	20011115	AT 1994-920958	19940620
ES 2167371	T3	20020516	ES 1994-920958	19940620
US 5981567	A	19991109	US 1995-578519	19951228
US 6479489	B1	20021112	US 1999-325063	19990603
US 6555567	B1	20030429	US 2002-175125	20020619
US 20040009999	A1	20040115	US 2003-372417	20030224
US 6774133	B2	20040810		
PRIORITY APPLN. INFO.:			DE 1993-4322052	A1 19930702
			DE 1994-4400223	A1 19940107
			DE 1994-4415334	A 19940502
			WO 1994-EP1997	W 19940620
			US 1995-578519	A3 19951228
			US 1999-325063	A3 19990603
			US 2002-175125	A3 20020619

OTHER SOURCE(S): CASREACT 122:265355; MARPAT 122:265355
GI



AB Title compds. [I; ABC = heteroatom-interrupted (substituted) 5-6 membered ring; X = alkyl, halo, alkoxy; Y = H, alkyl, halo, alkoxy, haloalkyl; Z = alkyl, halo, alkoxy; n = 0-3; G = H, COR1, C(:L)MR2, SO2R3, metal ion, ammonium ion, etc.; L, M = O, S; R1 = (halo-substituted) alkyl, alkenyl, alkoxyalkyl, alkylthioalkyl, polyalkoxyalkyl, (substituted) Ph, phenylalkyl, phenoxyalkyl, heteroaryl, etc.; R2 = (halo-substituted) alkyl, cycloalkyl, alkenyl, alkoxyalkyl, polyalkoxyalkyl, (substituted) Ph, PhCH2; R3 = (halo-substituted) alkyl, alkenyl, alkoxy, alkylamino, alkylthio, alkenylthio, cycloalkylthio, (substituted) Ph, PhO, PhS], were prepared Thus, Me 3-

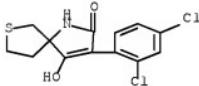
[*(2,4,6-trimethylphenyl)acetyl*amino]tetrahydrothiophene-3-carboxylate (preparation given) was refluxed with NaH in PhMe to give 96% title compound (II). Several I at 0.01% on Brassica oleracea leaves gave ≥90% control of *Myzus persicae*.

IT 162504-99-4P 162504-91-8P 162504-96-3P
162504-97-4P 162505-03-5P 162505-06-8P
162505-09-1P 162505-24-0P 162505-31-9P
162505-36-4P

RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses) (preparation of spirocyclic 1*H*-3-arylpyrrolidin-2,4-diones as pesticides)

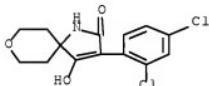
RN 162504-89-4 CAPLUS

CN 7-Thia-1-azaspiro[4.4]non-3-en-2-one, 3-(2,4-dichlorophenyl)-4-hydroxy- (CA INDEX NAME)



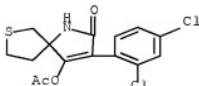
RN 162504-91-8 CAPLUS

CN 8-Oxa-1-azaspiro[4.5]dec-3-en-2-one, 3-(2,4-dichlorophenyl)-4-hydroxy- (CA INDEX NAME)



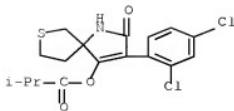
RN 162504-96-3 CAPLUS

CN 7-Thia-1-azaspiro[4.4]non-3-en-2-one,
4-(acetoxy)-3-(2,4-dichlorophenyl)- (CA INDEX NAME)

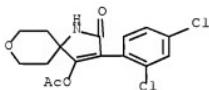


RN 162504-97-4 CAPLUS

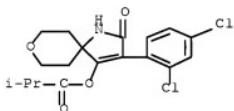
CN Propanoic acid, 2-methyl-, 3-(2,4-dichlorophenyl)-2-oxo-7-thia-1-azaspiro[4.4]non-3-en-4-yl ester (CA INDEX NAME)



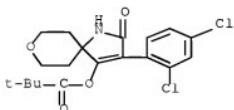
RN 162505-03-5 CAPLUS
CN 8-Oxa-1-azaspiro[4.5]dec-3-en-2-one, 4-(acetyloxy)-3-(2,4-dichlorophenyl)-
(CA INDEX NAME)



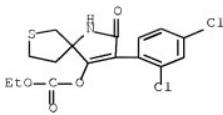
RN 162505-06-8 CAPLUS
CN Propanoic acid, 2-methyl-, 3-(2,4-dichlorophenyl)-2-oxo-8-oxa-1-
azaspiro[4.5]dec-3-en-4-yl ester (CA INDEX NAME)



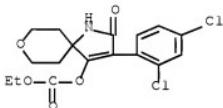
RN 162505-09-1 CAPLUS
CN Propanoic acid, 2,2-dimethyl-, 3-(2,4-dichlorophenyl)-2-oxo-8-oxa-1-
azaspiro[4.5]dec-3-en-4-yl ester (CA INDEX NAME)



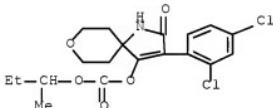
RN 162505-24-0 CAPLUS
CN Carbonic acid, 3-(2,4-dichlorophenyl)-2-oxo-7-thia-1-azaspiro[4.4]non-3-en-
4-yl ethyl ester (CA INDEX NAME)



RN 162505-31-9 CAPLUS
 CN Carbonic acid, 3-(2,4-dichlorophenyl)-2-oxo-8-oxa-1-azaspiro[4.5]dec-3-en-4-yl ethyl ester (CA INDEX NAME)

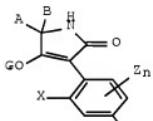


RN 162505-36-4 CAPLUS
 CN Carbonic acid, 3-(2,4-dichlorophenyl)-2-oxo-8-oxa-1-azaspiro[4.5]dec-3-en-4-yl 1-methylpropyl ester (CA INDEX NAME)

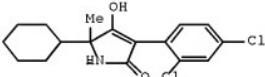


L3 ANSWER 52 OF 53 CAPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 1995:264619 CAPLUS [Full-text](#)
 DOCUMENT NUMBER: 122:55885
 ORIGINAL REFERENCE NO.: 122:10827a,10830a
 TITLE: Preparation of
 3-phenyl-5-cycloalkylpyrrolidin-2,4-diones as
 pesticides and herbicides.
 INVENTOR(S): Fischer, Reiner; Bretschneider, Thomas; Krueger,
 Bernd-Wieland; Santel, Hans-Joachim; Dollinger,
 Markus; Turberg, Andreas; Wachendorff-Neumann, Ulricke
 PATENT ASSIGNEE(S): Bayer A.-G., Germany
 SOURCE: Eur. Pat. Appl., 150 pp.
 DOCUMENT TYPE: Patent
 LANGUAGE: German
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 613885	A2	19940907	EP 1994-102324	19940216
EP 613885	A3	19941130		
EP 613885	B1	20010919		
R: BE, CH, DE, ES, FR, GB, IT, LI, NL				
DE 4306257	A1	19940908	DE 1993-4306257	19930301
ES 2164075	T3	20020216	ES 1994-102324	19940216
US 5567671	A	19961022	US 1994-200139	19940222
JP 06296307	A	19940913	JP 1994-51033	19940225
JP 3279804	B2	20020430		
BR 9400755	A	19941101	BR 1994-755	19940228
PRIORITY APPLN. INFO.: DE 1993-4306257 A 19930301				
OTHER SOURCE(S): CASREACT 122:55885; MARPAT 122:55885				



I



II

AB Title compds. [I; A = (substituted) cycloalkyl; B = H, (substituted) alkyl; X = alkyl, halo, alkoxy; Y = H, alkyl, alkyl, alkoxy, haloalkyl; Z = alkyl, halo, alkoxy; n = 0-3; G = H, COR1, S02R3, C:(L)NR6R7, etc.; L = O, S; R1 = (halo-substituted) (heteroatom-interrupted) alkyl, alkenyl, alkoxyalkyl, alkylthioalkyl, cycloalkyl, (substituted) Ph, phenylalkyl, heteroaryl, phenoxyalkyl, heteroarylalkyl; R3 = (halo-substituted) alkyl, alkoxy, cycloalkoxy, alkylamino, dialkylamino, alkylthio, alkenylthio, cycloalkylthio, (substituted) Ph, PhO, PhCH2O, PhS; R6, R7 = H, (halo-substituted) alkyl, 1 alkenyl, alkoxy, alkoxyalkyl, (substituted) Ph, PhCH2; NR6R7 = (O- or S-interrupted) ring], were prepared. Thus, N-(2,4-dichlorophenylacetyl)-2-cyclohexylalanine Me ester (preparation given) was refluxed with KOCMe3 in THF to give 70% title compound II. Several I at 125 g/ha preemergent gave >80% control of Digitaria while being very well-tolerated by sugar beets.

IT 159881-27-3P 159881-38-4P 159881-32-0P

159881-33-1P 159881-34-2P 159881-35-3P

159881-38-6P 159881-39-7P 159881-45-5P

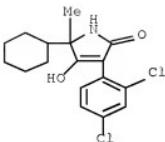
~~159881-46-6P 159881-47-7P 159881-50-2P~~

RI: AGR (Agricultural use); BAC (Biolo

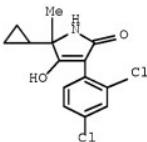
RS: non (agricultural use); BNC (Biological activity or effect), except adverse; BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses) (preparation of 3-phenyl-5-cycloalkylpyrrolidin-2,4-diones as pesticides and herbicides)

RN 159881-27-3 CAPLUS

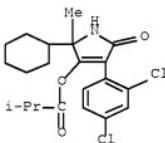
CN 2H-Pyrrol-2-one, 5-cyclohexyl-3-(2,4-dichlorophenyl)-1,5-dihydro-4-hydroxy-5-methyl- (CA INDEX NAME)



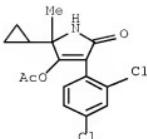
RN 159881-28-4 CAPLUS
CN 2H-Pyrrol-2-one, 5-cyclopropyl-3-(2,4-dichlorophenyl)-1,5-dihydro-4-hydroxy-5-methyl- (CA INDEX NAME)



RN 159881-32-0 CAPLUS
CN Propanoic acid, 2-methyl-, 2-cyclohexyl-4-(2,4-dichlorophenyl)-2,5-dihydro-2-methyl-5-oxo-1H-pyrrol-3-yl ester (CA INDEX NAME)

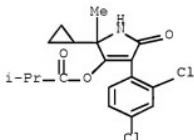


RN 159881-33-1 CAPLUS
CN 2H-Pyrrol-2-one, 4-(acetyloxy)-5-cyclopropyl-3-(2,4-dichlorophenyl)-1,5-dihydro-5-methyl- (CA INDEX NAME)



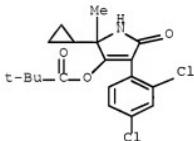
RN 159881-34-2 CAPLUS

CN Propanoic acid, 2-methyl-, 2-cyclopropyl-4-(2,4-dichlorophenyl)-2,5-dihydro-2-methyl-5-oxo-1H-pyrrol-3-yl ester (CA INDEX NAME)



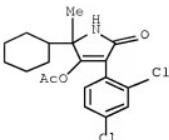
RN 159881-35-3 CAPLUS

CN Propanoic acid, 2,2-dimethyl-, 2-cyclopropyl-4-(2,4-dichlorophenyl)-2,5-dihydro-2-methyl-5-oxo-1H-pyrrol-3-yl ester (CA INDEX NAME)



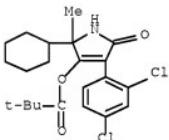
RN 159881-38-6 CAPLUS

CN 2H-Pyrrol-2-one, 4-(acetyloxy)-5-cyclohexyl-3-(2,4-dichlorophenyl)-1,5-dihydro-5-methyl- (CA INDEX NAME)



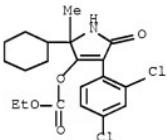
RN 159881-39-7 CAPLUS

CN Propanoic acid, 2,2-dimethyl-, 2-cyclohexyl-4-(2,4-dichlorophenyl)-2,5-dihydro-2-methyl-5-oxo-1H-pyrrol-3-yl ester (CA INDEX NAME)



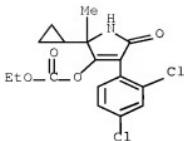
RN 159881-45-5 CAPLUS

CN Carbonic acid, 2-cyclohexyl-4-(2,4-dichlorophenyl)-2,5-dihydro-2-methyl-5-oxo-1H-pyrrol-3-yl ethyl ester (CA INDEX NAME)



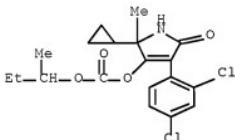
RN 159881-46-6 CAPLUS

CN Carbonic acid, 2-cyclopropyl-4-(2,4-dichlorophenyl)-2,5-dihydro-2-methyl-5-oxo-1H-pyrrol-3-yl ethyl ester (CA INDEX NAME)



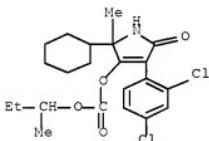
RN 159881-47-7 CAPLUS

CN Carbonic acid, 2-cyclopropyl-4-(2,4-dichlorophenyl)-2,5-dihydro-2-methyl-5-oxo-1H-pyrrol-3-yl 1-methylpropyl ester (CA INDEX NAME)



RN 159881-50-2 CAPLUS

CN Carbonic acid, 2-cyclohexyl-4-(2,4-dichlorophenyl)-2,5-dihydro-2-methyl-5-oxo-1H-pyrrol-3-yl 1-methylpropyl ester (CA INDEX NAME)



L3 ANSWER 53 OF 53 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1994:680537 CAPLUS [Full-text](#)

DOCUMENT NUMBER: 121:280537

ORIGINAL REFERENCE NO.: 121:51215a,51218a

TITLE: Preparation of 5-spiro substituted

1-H-3-arylpyrrolidin-2,4-dione derivatives as
herbicides, insecticides and acaricides

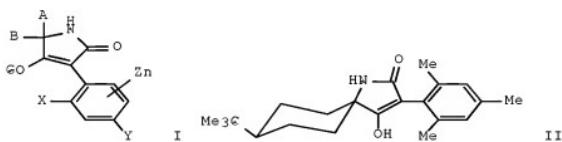
INVENTOR(S): Fischer, Reiner; Bretschneider, Thomas; Krueger, Bernd
Wieland; Erdelen, Christoph; Santel, Hans Joachim;
Luerssen, Klaus; Schmidt, Robert R.;
Wachendorff-Neumann, Ulrike; Stendel, Wilhelm

PATENT ASSIGNEE(S): Bayer A.-G., Germany
SOURCE: Eur. Pat. Appl., 107 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 596298	A2	19940511	EP 1993-116687	19931015
EP 596298	A3	19940720		
EP 596298	B1	20020109		
R, BE, CH, DE, ES, FR, GB, GR, IT, LI, NL, PT				
DE 4326909	A1	19940505	DE 1993-4326909	19930811
AU 9347540	A	19940512	AU 1993-47540	19930922
AU 666040	B2	19960125		
PT 596298	T	20020731	PT 1993-116687	19931015
ES 2170063	T3	20020801	ES 1993-116687	19931015
US 5462913	A	19951031	US 1993-140635	19931021
CA 2109161	C	19940429	CA 1993-2109161	19931025
CA 2109161	A1	19940429		
JP 06263731	A	19940920	JP 1993-287228	19931025
JP 3435671	B2	20030811		
BR 9304387	A	19940510	BR 1993-4387	19931027
ZA 9307988	A	19940803	ZA 1993-7988	19931027
CN 1086213	A	19940504	CN 1993-119576	19931028
CN 1044366	C	19990728		
AU 9520285	A	19950810	AU 1995-20285	19950525
AU 675616	B2	19970206		
US 5677449	A	19971014	US 1995-462488	19950605
CN 1190650	A	19980819	CN 1997-125568	19971219
CN 1065524	C	20010509		

PRIORITY APPLN. INFO.: DE 1992-4236401 A 19921028
DE 1993-4326909 A 19930811
US 1993-140635 A3 19931021

OTHER SOURCE(S): MARPAT 121:280537
GT



AB The preparation of title compds. I [A, B = (un)substituted carbocyclic ring; X = alkyl, halo, alkoxy; Y = H, alkyl, halo, alkoxy, haloalkyl; Z = alkyl, halo, alkoxy; n = 0-3; G = H, organocarbonyl, organosulfonyl, organophosphonyl, amido; alkali metal or ammonium salts], useful as herbicides, insecticides, and acaricides, is described. Thus, NaH mediated cyclization of Me-N-(2,4,6-trimethylphenylacetyl)-1-amino-4-tert- butylcyclohexanecarboxylate in PhMe

gave 63% title compound II. Phaedon, Plutella, and Nephrotettix-tests of some of the compds. prepared is given.

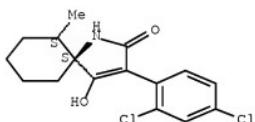
IT 158865-56-6P 158865-60-2P 158865-64-6P
158865-65-7P 158865-67-9P 158865-70-4P
158865-71-5P 158865-73-7P 158865-75-9P
158865-94-0P 158865-90-8P 158865-95-3P
158865-96-4P 158866-01-4P 158866-02-5P
158866-03-6P 158866-13-9P 158866-14-9P
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158866-76-3P 158866-79-6P 158866-80-9P
158866-96-5P 158866-87-6P 158867-01-7P

RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses) (preparation of, as herbicide, insecticide, and acaricide)

RN 158865-56-6 CAPLUS

CN 1-Azaspiro[4.5]dec-3-en-2-one, 3-(2,4-dichlorophenyl)-4-hydroxy-6-methyl-, trans- (9CI) (CA INDEX NAME)

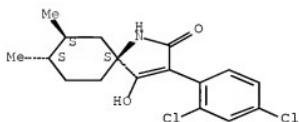
Relative stereochemistry.



RN 158865-60-2 CAPLUS

CN 1-Azaspiro[4.5]dec-3-en-2-one, 3-(2,4-dichlorophenyl)-4-hydroxy-7,8-dimethyl-, (5a,7a,8beta)- (9CI) (CA INDEX NAME)

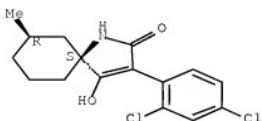
Relative stereochemistry.



RN 158865-64-6 CAPLUS

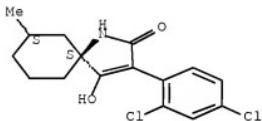
CN 1-Azaspiro[4.5]dec-3-en-2-one, 3-(2,4-dichlorophenyl)-4-hydroxy-7-methyl-, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



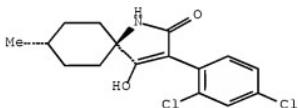
RN 158865-65-7 CAPLUS
CN 1-Azaspiro[4.5]dec-3-en-2-one, 3-(2,4-dichlorophenyl)-4-hydroxy-7-methyl-,
trans- (9CI) (CA INDEX NAME)

Relative stereochemistry.



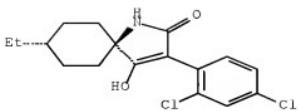
RN 158865-67-9 CAPLUS
CN 1-Azaspiro[4.5]dec-3-en-2-one, 3-(2,4-dichlorophenyl)-4-hydroxy-8-methyl-,
trans- (9CI) (CA INDEX NAME)

Relative stereochemistry.



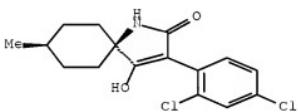
RN 158865-70-4 CAPLUS
CN 1-Azaspiro[4.5]dec-3-en-2-one, 3-(2,4-dichlorophenyl)-8-ethyl-4-hydroxy-,
trans- (9CI) (CA INDEX NAME)

Relative stereochemistry.



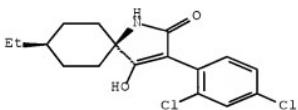
RN 158865-71-5 CAPLUS
 CN 1-Azaspiro[4.5]dec-3-en-2-one, 3-(2,4-dichlorophenyl)-4-hydroxy-8-methyl-,
 cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.

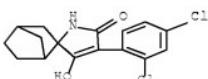


RN 158865-73-7 CAPLUS
 CN 1-Azaspiro[4.5]dec-3-en-2-one, 3-(2,4-dichlorophenyl)-8-ethyl-4-hydroxy-,
 cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.

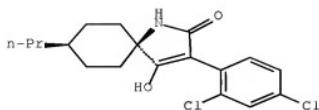


RN 158865-75-9 CAPLUS
 CN Spiro[bicyclo[2.2.1]heptane-2,2'-[2H]pyrrol]-5' (1'H)-one,
 4'-(2,4-dichlorophenyl)-3'-hydroxy- (CA INDEX NAME)



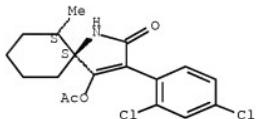
RN 158865-84-0 CAPLUS
 CN 1-Azaspiro[4.5]dec-3-en-2-one, 3-(2,4-dichlorophenyl)-4-hydroxy-8-propyl-,
 cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



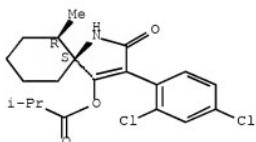
RN 158865-90-8 CAPLUS
CN 1-Azaspiro[4.5]dec-3-en-2-one, 4-(acetyloxy)-3-(2,4-dichlorophenyl)-6-methyl-, trans- (9CI) (CA INDEX NAME)

Relative stereochemistry.



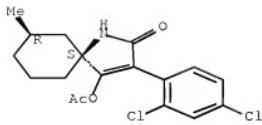
RN 158865-95-3 CAPLUS
CN Propanoic acid, 2-methyl-, 3-(2,4-dichlorophenyl)-6-methyl-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ester, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



RN 158865-96-4 CAPLUS
CN 1-Azaspiro[4.5]dec-3-en-2-one, 4-(acetyloxy)-3-(2,4-dichlorophenyl)-7-methyl-, cis- (9CI) (CA INDEX NAME)

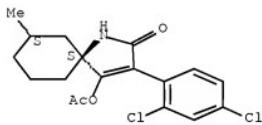
Relative stereochemistry.



RN 158866-01-4 CAPLUS

CN 1-Azaspiro[4.5]dec-3-en-2-one, 4-(acetyloxy)-3-(2,4-dichlorophenyl)-7-methyl-, trans- (9CI) (CA INDEX NAME)

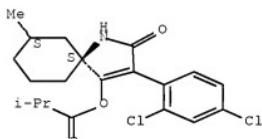
Relative stereochemistry.



RN 158866-02-5 CAPLUS

CN Propanoic acid, 2-methyl-, 3-(2,4-dichlorophenyl)-7-methyl-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ester, trans- (9CI) (CA INDEX NAME)

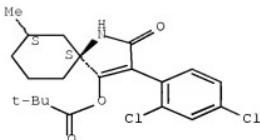
Relative stereochemistry.



RN 158866-03-6 CAPLUS

CN Propanoic acid, 2,2-dimethyl-, 3-(2,4-dichlorophenyl)-7-methyl-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ester, trans- (9CI) (CA INDEX NAME)

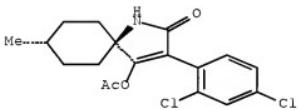
Relative stereochemistry.



RN 158866-13-8 CAPLUS

CN 1-Azaspiro[4.5]dec-3-en-2-one, 4-(acetyloxy)-3-(2,4-dichlorophenyl)-8-methyl-, trans- (9CI) (CA INDEX NAME)

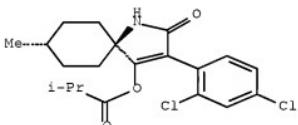
Relative stereochemistry.



RN 158866-14-9 CAPLUS

CN Propanoic acid, 2-methyl-, 3-(2,4-dichlorophenyl)-8-methyl-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ester, trans- (9CI) (CA INDEX NAME)

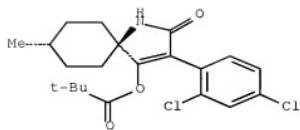
Relative stereochemistry.



RN 158866-15-0 CAPLUS

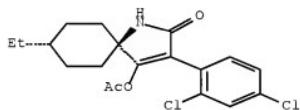
CN Propanoic acid, 2,2-dimethyl-, 3-(2,4-dichlorophenyl)-8-methyl-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ester, trans- (9CI) (CA INDEX NAME)

Relative stereochemistry.



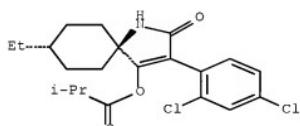
RN 158866-22-9 CAPLUS
 CN 1-Azaspiro[4.5]dec-3-en-2-one, 4-(acetyloxy)-3-(2,4-dichlorophenyl)-8-ethyl-, trans- (9CI) (CA INDEX NAME)

Relative stereochemistry.



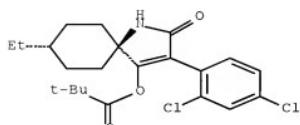
RN 158866-23-0 CAPLUS
 CN Propanoic acid, 2-methyl-, 3-(2,4-dichlorophenyl)-8-ethyl-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ester, trans- (9CI) (CA INDEX NAME)

Relative stereochemistry.



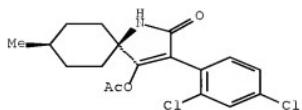
RN 158866-24-1 CAPLUS
 CN Propanoic acid, 2,2-dimethyl-, 3-(2,4-dichlorophenyl)-8-ethyl-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ester, trans- (9CI) (CA INDEX NAME)

Relative stereochemistry.



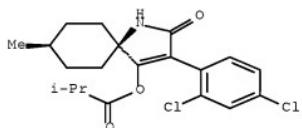
RN 158866-25-2 CAPLUS
CN 1-Azaspiro[4.5]dec-3-en-2-one, 4-(acetyloxy)-3-(2,4-dichlorophenyl)-8-methyl-, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



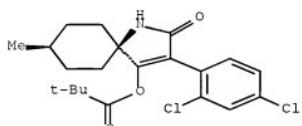
RN 158866-26-3 CAPLUS
CN Propanoic acid, 2-methyl-, 3-(2,4-dichlorophenyl)-8-methyl-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ester, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.

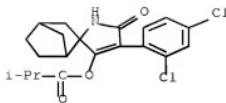


RN 158866-27-4 CAPLUS
CN Propanoic acid, 2,2-dimethyl-, 3-(2,4-dichlorophenyl)-8-methyl-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ester, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.

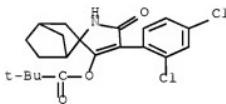


RN 158866-32-1 CAPLUS
CN Propanoic acid, 2-methyl-, 4'-(2,4-dichlorophenyl)-5'-oxospiro[bicyclo[2.2.1]heptane-2,2'-[2H]pyrrol]-3'-yl ester (CA INDEX NAME)



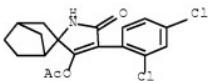
RN 158866-33-2 CAPLUS

CN Propanoic acid, 2,2-dimethyl-, 4'-(2,4-dichlorophenyl)-1',5'-dihydro-5'-oxospiro[bicyclo[2.2.1]heptane-2,2'-(2H)pyrrol]-3'-yl ester (CA INDEX NAME)



RN 158866-34-3 CAPLUS

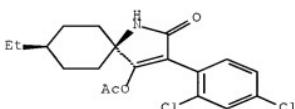
CN Spiro[bicyclo[2.2.1]heptane-2,2'-(2H)pyrrol]-5'(1'H)-one, 3'-(acetoxy)-4'-(2,4-dichlorophenyl)- (CA INDEX NAME)



RN 158866-52-5 CAPLUS

CN 1-Azaspiro[4.5]dec-3-en-2-one, 4-(acetoxy)-3-(2,4-dichlorophenyl)-8-ethyl-, cis- (9CI) (CA INDEX NAME)

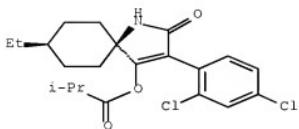
Relative stereochemistry.



RN 158866-53-6 CAPLUS

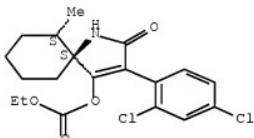
CN Propanoic acid, 2-methyl-, 3-(2,4-dichlorophenyl)-8-ethyl-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ester, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



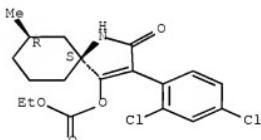
RN 158866-55-8 CAPLUS
CN Carbonic acid, 3-(2,4-dichlorophenyl)-6-methyl-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ethyl ester, trans- (9CI) (CA INDEX NAME)

Relative stereochemistry.



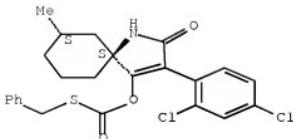
RN 158866-58-1 CAPLUS
CN Carbonic acid, 3-(2,4-dichlorophenyl)-7-methyl-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ethyl ester, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



RN 158866-60-5 CAPLUS
CN Carbonothioic acid, O-[3-(2,4-dichlorophenyl)-7-methyl-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl] S-(phenylmethyl) ester, trans- (9CI) (CA INDEX NAME)

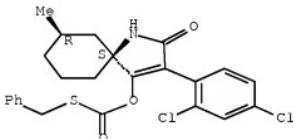
Relative stereochemistry.



RN 158866-61-6 CAPLUS

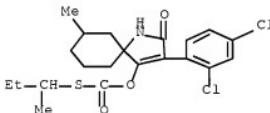
CN Carbonothioic acid, 0-[3-(2,4-dichlorophenyl)-7-methyl-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl] S-(phenylmethyl) ester, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



RN 158866-62-7 CAPLUS

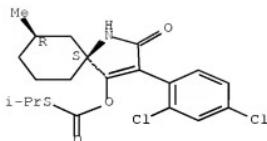
CN Carbonothioic acid, 0-[3-(2,4-dichlorophenyl)-7-methyl-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl] S-(1-methylpropyl) ester (CA INDEX NAME)



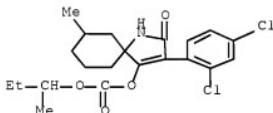
RN 158866-63-8 CAPLUS

CN Carbonothioic acid, 0-[3-(2,4-dichlorophenyl)-7-methyl-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl] S-(1-methylethyl) ester, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.

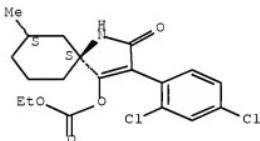


RN 158866-64-9 CAPLUS
 CN Carbonic acid, 3-(2,4-dichlorophenyl)-7-methyl-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl 1-methylpropyl ester (CA INDEX NAME)



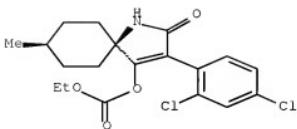
RN 158866-67-2 CAPLUS
 CN Carbonic acid, 3-(2,4-dichlorophenyl)-7-methyl-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ethyl ester, trans- (9CI) (CA INDEX NAME)

Relative stereochemistry.



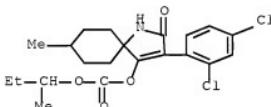
RN 158866-75-2 CAPLUS
 CN Carbonic acid, 3-(2,4-dichlorophenyl)-8-methyl-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ethyl ester, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



RN 158866-76-3 CAPLUS

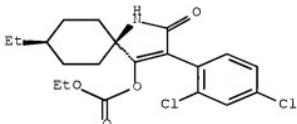
CN Carbonic acid, 3-(2,4-dichlorophenyl)-8-methyl-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl 1-methylpropyl ester (CA INDEX NAME)



RN 158866-79-6 CAPLUS

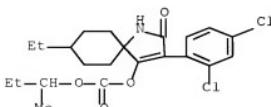
CN Carbonic acid, 3-(2,4-dichlorophenyl)-8-ethyl-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ethyl ester, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



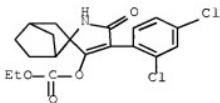
RN 158866-80-9 CAPLUS

CN Carbonic acid, 3-(2,4-dichlorophenyl)-8-ethyl-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl 1-methylpropyl ester (CA INDEX NAME)



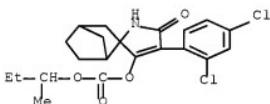
RN 158866-86-5 CAPLUS

CN Carbonic acid, 4'-(2,4-dichlorophenyl)-1',5'-dihydro-5'-oxospiro[bicyclo[2.2.1]heptane-2,2'-[2H]pyrrol]-3'-yl ethyl ester (9CI) (CA INDEX NAME)



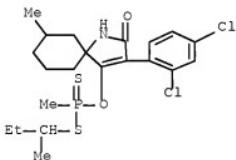
RN 158866-87-6 CAPLUS

CN Carbonic acid, 4'-(2,4-dichlorophenyl)-1',5'-dihydro-5'-oxospiro[bicyclo[2.2.1]heptane-2,2'-[2H]pyrrol]-3'-yl 1-methylpropyl ester (9CI) (CA INDEX NAME)



RN 158867-01-7 CAPLUS

CN Phosphonodithioic acid, methyl-, O-[3-(2,4-dichlorophenyl)-7-methyl-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl] S-(1-methylpropyl) ester (9CI) (CA INDEX NAME)



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ALL L# QUERIES AND ANSWER SETS ARE DELETED AT LOGOFF

LOGOFF? (Y)/N/HOLD:y

STN INTERNATIONAL LOGOFF AT 09:57:48 ON 29 DEC 2008